MAMBOURIN ESTATE STAGE 1
FRASERS PROPERTY AUSTRALIA

GENERAL NOTES:

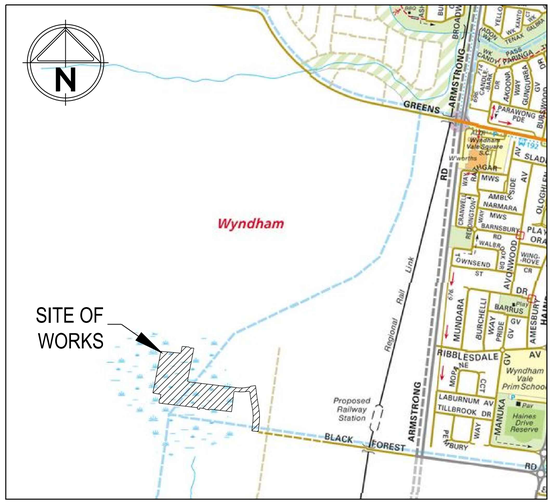
1. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) ZONE 55.
2. ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
3. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED METROPOLITAN PLANNING AUTHORITY OR MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS WHERE NOTED AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE MUNICIPAL ENGINEER OR HIS REPRESENTATIVE.
4. ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB.
5. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
6. WHERE REQUIRED ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
7. ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE UNLESS NOTED OTHERWISE.
8. ALL FILLING ON LOTS AND WITHIN ROAD RESERVES GREATER THAN 200mm IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.
9. FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, AS 3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
10. ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
11. NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
12. TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF T.B.M.'S THEREAFTER.
13. AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 150m DEEP, A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.
14. ALL SERVICE TRENCHES UNDER DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND KERB AND CHANNEL OR PAVED TRAFFIC AREAS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.
15. WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DESLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED AND LEVELED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH THE SPECIFICATION.
16. NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCILS PERMISSION.
17. GAS AND WATER CONDUITS ARE TO BE :
    Ø50mm : CLASS 12 P.V.C. - SINGLE SERVICE
    Ø100mm : CLASS 12 P.V.C. - DUAL SERVICE (DRINKING AND NON DRINKING WATER)

    WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:
    ROAD PAVEMENT - 0.80m
    VERGE, FOOTPATHS - 0.45m
17. ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.
18. AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE METROPOLITAN PLANNING AUTHORITY STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
19. CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
20. WHERE CURVED PIPE ALIGNMENTS ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
21. WATER TAPPINGS TO BE LOCATED IN CENTRE OF ALLOTMENTS UNLESS OTHERWISE SHOWN.
22. TELSTRA IS TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.
23. PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
24. WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.
25. WHEN PAVEMENT EXCAVATION IS IN ROCK, ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
26. ALL VEHICLE CROSSINGS ARE IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS.
27. LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742-1 AND AS 1742-2 UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH METROPOLITAN PLANNING AUTHORITY STANDARDS.
28. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.
29. TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.
30. CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. SEMP TO BE APPROVED BY COUNCIL PRIOR TO THE COMMENCEMENT OF WORKS.
31. ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED FROM THE SUPERINTENDENT.
32. TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS.
33. THE CONTRACTOR IS REQUIRED TO OBTAIN A 'PERMIT TO WORK' FROM MELBOURNE WATER'S SURVEILLANCE OFFICER AT THE PRE-COMMENCEMENT MEETING. THE CONTRACTOR IS REQUIRED TO ENSURE THAT THE 'PERMIT TO WORK' IS KEPT UP TO DATE FOR THE DURATION OF THE CONTRACT.
34. ALL PITS / MANHOLES IN CONCRETED AREAS TO BE CONSTRUCTED IN ACCORDANCE WITH WCC DETAIL SD2-5.
35. ALL NATURESTRIPS, FROM BACK OF KERB TO EXISTING EDGE OF PATH OR PROPERTY BOUNDARY ARE TO BE FILLED TO A CLEAN, TIDY CONDITION, TOP DRESSED (50MM LOAMY TOP SOIL FREE OF CLUMPS, SODS AND CLAY LUMPS) AND HYDROSEEDED.
36. ALL STORMWATER DRAINS ARE TO BE CLASS 2 R.C. OR RIGID F.R.C. PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO AND INCLUDING 750mm DIA ARE TO BE RUBBER RING JOINTED. INTERLOCKING / FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750mm DIA.
37. CURVED PIPE ALIGNMENTS TO BE ACHIEVED USING SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION.
    RADIUS AND SPLAY LENGTHS PROVIDED FOR ORDERING PURPOSES.

SERVICE OFFSETS AND LOCATION TABLE

ROAD NAME	POTABLE WATER		RECYCLED WATER		GAS		ELECTRICITY				TELECOM	
							POLE		U/G CABLE			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
MERULA DRIVE (LOTS 125 TO 157)	N	2.95	N	2.50	N	2.10	S	0.80*	S	2.60	S	1.725
MERULA DRIVE (LOTS 157 TO 160)	W	2.95	W	2.50	W	2.10	E	0.80*	E	2.60	E	1.725
SHOAL CIRCUIT (LOTS 135 TO 142)	W	2.95	W	2.50	W	2.10	W	0.80*	E	2.60	E	1.725
SHOAL CIRCUIT (LOTS 143 TO 160)	S	2.95	S	2.50	S	2.10	S	0.80*	N	2.60	N	1.725
SHOAL CIRCUIT (BRIDGE)	S	1.20	S	0.70	S	0.28	S	0.80*	N	1.10	N	0.350
NETTLE STREET (LOTS 101 TO 110)	W	2.95	W	2.50	W	2.10	E	0.80*	E	2.60	E	1.725
NETTLE STREET (LOTS 113 TO 139)	S	2.95	S	2.50	S	2.10	N	0.80*	N	2.60	N	1.725
RENGA PALCE	W	2.95	W	2.50	W	2.10	E	0.80*	E	2.60	E	1.725
STEM CLOSE	W	2.95	W	2.50	W	2.10	E	0.80*	E	2.60	E	1.725
BARRABOOL BOULEVARD	W	3.25	W	2.50	W	2.10	E	0.80*	E	2.55	E	2.000
BLACKFOREST ROAD	S	5.95*	S	6.75*	S	7.55*	S	0.80*	N	2.60	N	1.725
DRIVEWAY	W	2.95	W	2.50	W	2.10	-	-	W	3.90	W	3.400
RESIN STREET	S	3.00	S	2.50	S	2.10	N	0.80*	N	2.60	N	1.725

1. TELSTRA AND ELECTRICITY CABLES ARE TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRAWINGS.
2. GAS AND WATER MAINS ARE TO BE CONSTRUCTED IN A COMMON TRENCH.
3. * DENOTES OFFSET FROM BACK OF KERB.
4. LIGHT POLES DIMENSIONED TO CENTRE OF POLE.



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LOCALITY PLAN

SCALE: NOT TO SCALE
MAP: 204 E5

DRAWING INDEX

Drawing Number	Drawing Name
303976R01	FACE SHEET
303976R02	DETAIL PLAN - SHEET 1 OF 4
303976R03	DETAIL PLAN - SHEET 2 OF 4
303976R04	DETAIL PLAN - SHEET 3 OF 4
303976R05	DETAIL PLAN - SHEET 4 OF 4
303976R06	LONGITUDINAL SECTION - MERULA DRIVE & RESIN STREET
303976R07	LONGITUDINAL SECTION - NETTLE STREET & SHOAL CIRCUIT (LOTS 143 TO 160)
303976R08	LONGITUDINAL SECTION - BARRABOOL BOULEVARD, SHOAL CIRCUIT (LOTS 135 TO 142) & RENGA PLACE
303976R09	LONGITUDINAL SECTION - BLACKFOREST ROAD
303976R10	CROSS SECTIONS - MERULA DRIVE
303976R11	CROSS SECTIONS - MERULA DRIVE
303976R12	CROSS SECTIONS - MERULA DRIVE & LONG DRIVEWAY
303976R13	CROSS SECTIONS - NETTLE STREET
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303976R16	CROSS SECTIONS - SHOAL CIRCUIT (LOTS 135 TO 142) & NARROW WAY
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303976R23	INTERSECTION DETAILS - SHEET 1 OF 7
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303976R33	DRAINAGE LONG SECTION - SHEET 4 OF 9
303976R34	DRAINAGE LONG SECTION - SHEET 5 OF 9
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303976R36	DRAINAGE LONG SECTION - SHEET 7 OF 9
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303976R39	PAVEMENT & TYPICAL DETAILS
303976R40	SIGNAGE AND LINEMARKING PLAN - SHEET 1 OF 3
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303976R42	SIGNAGE AND LINEMARKING PLAN - SHEET 3 OF 3
303976R43	RAISED PAVEMENT DETAILS
303976R44	CULVERT DETAILS

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WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	DW	DW
WATER RECYCLED	NDW	NDW
UNDERGROUND ELECTRICITY	E	E
OVERHEAD ELECTRICITY & POLE	OE	OE
TELSTRA & SERVICE PIT	T	T
OPTIC FIBRE	OF	OF
OVERHEAD TELSTRA	OT	
GAS MAIN	G	G
BRANCH SEWER & MANHOLE	S	S
SEWER & MANHOLE	S	S
SEWER RISING MAIN	SRM	SRM
CENTRAL INVERT		
COUNCIL STORMWATER DRAIN & PIT		
STORMWATER DRAINAGE PROPERTY INLETS		
COUNCIL STORMWATER PITS		
HOUSE DRAIN	H	H
AG DRAIN AND FLUSHER	AG	AG
MWC STORMWATER DRAIN & PIT		
MWC STORMWATER PITS		
STORMWATER DRAINAGE PIT NUMBER	1	1
GAS & WATER CONDUITS	GW	GW
CONCRETE VEHICLE CROSSING		
PAVEMENT SAWCUT LINE		SAWCUT
RIDGE / CHANGE OF GRADE LINE		
SURFACE CONTOUR MINOR	168.90	168.90
SURFACE CONTOUR MAJOR	169.00	169.00
SURFACE LEVEL	123.45	F124.68
BATTER LEVEL (TOP / TOE)	T124.80	T124.80
EARTHWORKS GRADE		1 in 150
SIGN AND POST		
LIGHT & POLE (BY OTHERS)		
STREET SIGN		
PERMANENT SURVEY MARK		
TEMPORARY BENCH MARK		
BOLLARD		
ROAD CHAINAGES	CH116.57 (L/R)TP CH116.57	CH116.57 (L/R)TP CH116.57
LOT CHAINAGE	CH20.06	CH20.06
SETOUT POINT		A2
LIMIT OF WORKS		
BATTER		
EXCAVATION GREATER THAN 0.20m		
FILLING GREATER THAN 0.30m		
FILL EXTENTS		
ROCK BEACHING		
PARKING BAY/PAVED AREA		
RETAINING WALL - TIMBER		
RETAINING WALL - CONCRETE		
RETAINING WALL - ROCK/STONE		
GRASSED MAINTENANCE ACCESS TRACK		
GRAVEL MAINTENANCE ACCESS TRACK		
FENCE - TREE PROTECTION		
FENCE - VEHICLE EXCLUSION		
FENCES		
GUARD RAIL		
TREE (& SURVEYED CANOPY) TO BE RETAINED		
TREE TO BE REMOVED		
VEGETATION LINE		

Rev	Amendments	Approved	Date
12	SHEETS R01 & R43 AMENDED	M.L	26/03/20
11	SHEETS R01 & R44 AS CONSTRUCTED	M.L	19/09/19
10	SHEETS R01 & R39 AMENDED	M.L	28/08/19
9	SHEET R05 AMENDED	M.L	3/05/19
8	SHEETS R03 / R04 / R23 / R40 / R41 AMENDED	M.L	24/04/19
7	SHEETS R02 / R03 / R04 / R05 / R20 / R21 / R22 AMENDED & SERVICE OFFSET TABLE UPDATED	M.L	05/04/19
6	SHEETS R02 / R03 / R04 / R05 / R12 / R26 / R28 / R37 / R38 / R41 / R42 AMENDED	M.L	07/03/19

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Designed: R. WEINBER
Checked: B. IBBS
Authorised: M. CAIRNEY
Date: 13-04-18

MAMBOURIN ESTATE STAGE 1
FACE SHEET

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303976R01**
Rev **12**

Rev	Amendments	Approved	Date
4	AS CONSTRUCTED	M.L	19/09/19
3	LOT 116 DRIVEWAY COMBINED WITH LOT 117. LOT 116 CONDUIT UPDATED.	M.L	5/04/19
2	MERULA DRIVE FOOTPATH ADDED. SHOAL CIRCUIT BRIDGE WEST PEDESTRIAN CROSSING WIDEN TO 2.5m	M.L	07/03/19
1	FOOTPATH ALONG WETLANDS 1 & 2 REMOVED	M.L	31/01/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

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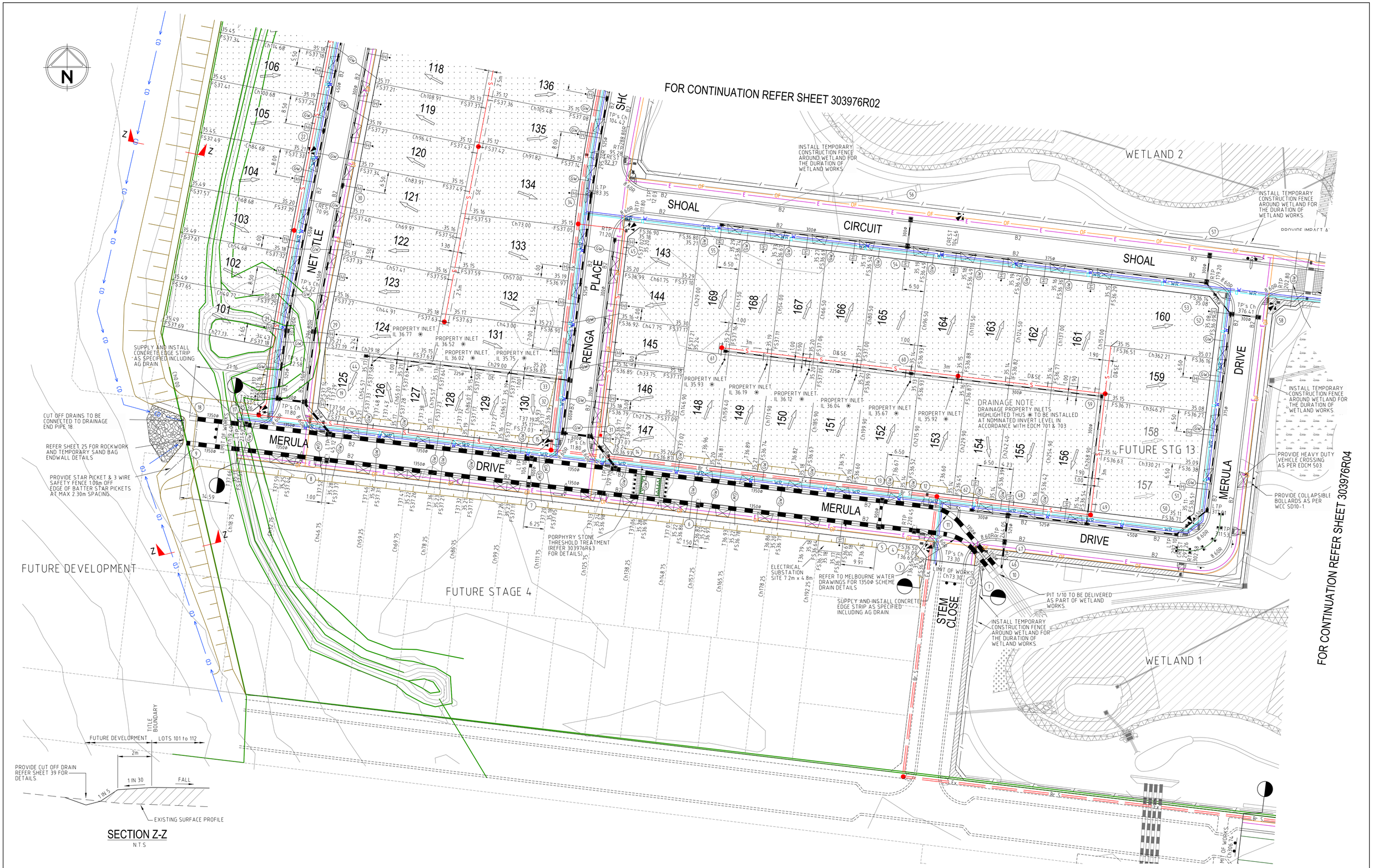
Date 13-04-18

MAMBOURIN ESTATE STAGE 1
DETAIL PLAN
SHEET 1 OF 4
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED

Drg No **303976R02**

Rev **4**



Rev	Amendments	Approved	Date
6	AS CONSTRUCTED	M.L	19/09/19
5	DRIVEWAY & GW CONDUIT FOR FUTURE STAGE 4 ALONG MERULA DRIVE UPDATED.	M.L	24/04/19
4	LOT 157 & 158 MOVED TO STAGE 13	M.L	5/04/19
3	MERULA DRIVE FOOTPATH ADDED. SHOAL CIRCUIT BRIDGE WEST PEDESTRIAN	M.L	07/03/19
	CROSSING WIDEN TO 2.5m		
2	FOOTPATH ALONG WETLANDS 1 & 2 REMOVED, PORPHYRY STONE THRESHOLD	M.L	31/01/19
	TREATMENT ADDED TO RAISED PAVEMENT APPROACH & BRIDGE CROSSING		
1	FUTURE STAGE 4 LOT LAYOUT UPDATED, DRIVEWAYS AND CONDUITS ADJUSTED.	M.L	17/10/18

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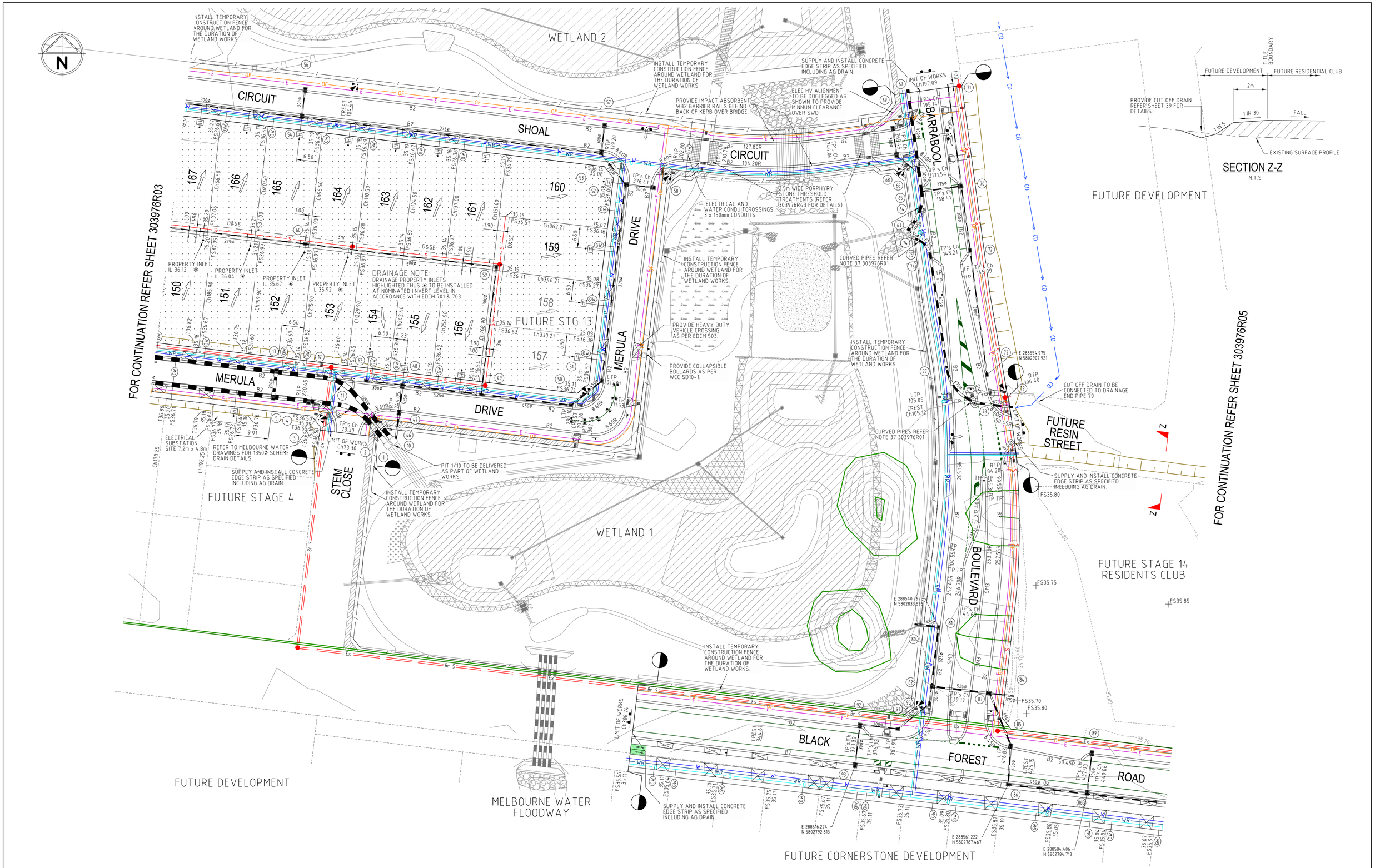
Date 13-04-18

MAMBOURIN ESTATE
STAGE 1
DETAIL PLAN
SHEET 2 OF 4
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303976R03** Rev **6**



Rev	Amendments	Approved	Date
7	AS CONSTRUCTED	M.L	19/09/19
6	DRIVEWAY & GW CONDUIT FOR FUTURE STAGE 4 ALONG MERULA DRIVE UPDATED.	M.L	24/04/19
5	CORNERSTONE ESTATE FOOTPATHS, DRIVEWAYS & TAPPINGS AMENDED.	M.L	05/04/19
	LOT 157 & 158 MOVED TO STAGE 13		

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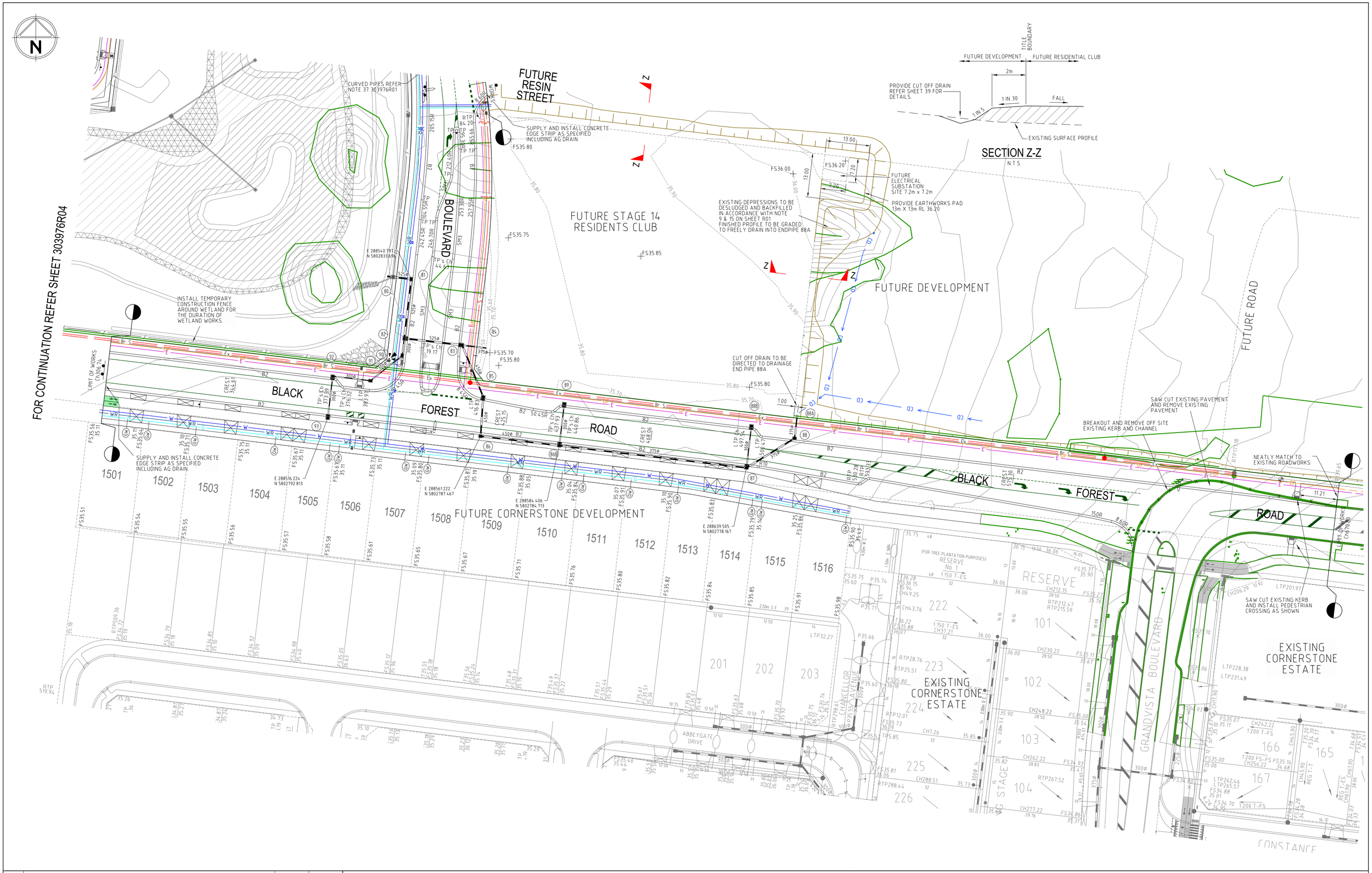
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE
STAGE 1
DETAIL PLAN
SHEET 3 OF 4
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303976R04**
Rev **7**



Rev	Amendments	Approved	Date
8	AS CONSTRUCTED	M.L	19/09/19
7	FUTURE RESI CLUB ELEC SUB-STN ADDED	M.L	03/05/19
6	CORNERSTONE ESTATE FOOTPATHS, DRIVEWAYS & TAPPINGS AMENDED	M.L	05/04/19
5	PIT 80 TO PIT 93 DRAINAGE ALIGNMENT UPDATED.	M.L	07/03/19
	BATTER ADDED ALONG PERIMETER OF FUTURE STAGE 14 RESIDENTS CLUB		
4	PIT 80 TO PIT 93 DRAINAGE ALIGNMENT UPDATED.	M.L	20/02/19
	RESIDENTS CLUB BULK EARTHWORKS FINISHED LEVELS & CONTOURS ADDED		

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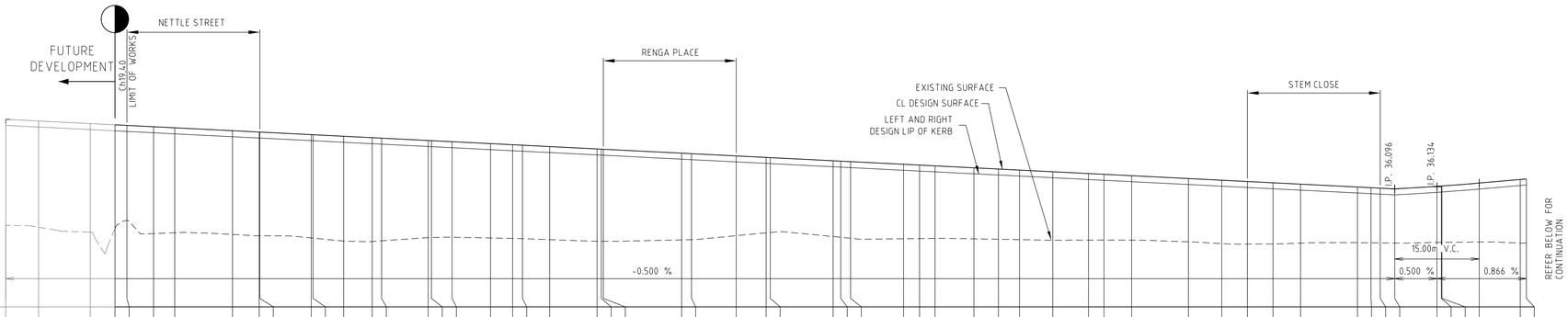
MAMBOURIN ESTATE
STAGE 1
DETAIL PLAN
SHEET 4 OF 4
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

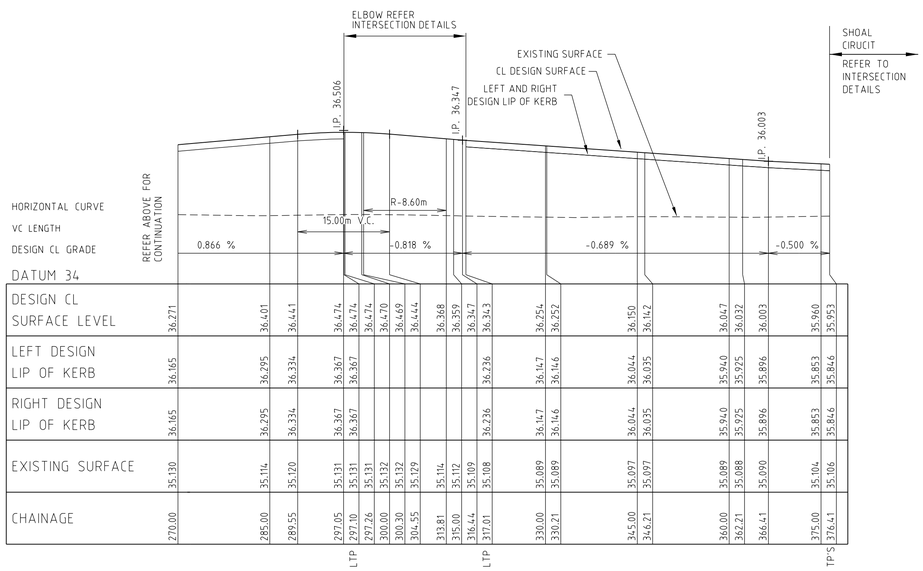
AS CONSTRUCTED
Drg No **303976R05**
Rev **8**



HORIZONTAL CURVE
VC LENGTH
DESIGN CL GRADE
DATUM 34

CHAINAGE	EXISTING SURFACE	LEFT DESIGN LIP OF KERB	RIGHT DESIGN LIP OF KERB	DESIGN CL SURFACE LEVEL
0.00	35.448	37.224	37.224	37.330
5.82	35.415	37.195	37.195	37.301
15.00	35.326	37.149	37.149	37.255
19.40 (LTP)	35.388	37.127	37.127	37.233
21.52	35.533	37.116	37.116	37.223
26.25	35.301	37.092	37.092	37.199
30.00	35.315	37.074	37.074	37.180
40.25	35.286	37.022	37.022	37.129
45.00	35.263	36.998	36.998	37.105
45.12 (LTP)	35.263	36.998	36.998	37.104
54.25	35.223	36.952	36.952	37.059
54.57	35.220	36.951	36.951	37.057
60.00	35.168	36.923	36.923	37.030
65.07	35.160	36.898	36.898	37.005
66.75	35.172	36.890	36.890	36.996
75.00	35.230	36.848	36.848	36.955
75.57	35.233	36.846	36.846	36.952
79.25	35.236	36.827	36.827	36.934
86.07	35.223	36.793	36.793	36.900
90.00	35.215	36.773	36.773	36.880
91.75	35.210	36.765	36.765	36.871
96.57	35.193	36.740	36.740	36.847
105.00	35.164	36.698	36.698	36.805
105.75	35.164	36.695	36.695	36.801
106.10 (LTP)	35.164	36.693	36.693	36.799
120.00	35.189	36.623	36.623	36.730
121.75	35.193	36.614	36.614	36.721
129.70 (LTP)	35.264	36.575	36.575	36.681
135.00	35.315	36.548	36.548	36.655
135.75	35.322	36.544	36.544	36.651
146.90	35.248	36.489	36.489	36.595
148.25	35.235	36.482	36.482	36.588
150.00	35.218	36.473	36.473	36.580
159.40	35.209	36.476	36.476	36.533
162.25	35.212	36.412	36.412	36.518
165.00	35.215	36.398	36.398	36.505
171.90	35.208	36.364	36.364	36.470
176.25	35.200	36.342	36.342	36.448
180.00	35.194	36.323	36.323	36.430
185.90	35.183	36.293	36.293	36.400
192.25	35.185	36.262	36.262	36.368
195.00	35.187	36.248	36.248	36.355
199.90	35.185	36.223	36.223	36.330
210.00	35.154	36.173	36.173	36.279
215.90	35.123	36.143	36.143	36.250
220.45 (RTP)	35.115	36.121	36.121	36.227
225.00	35.117	36.098	36.098	36.204
229.90	35.132	36.073	36.073	36.180
240.00	35.140	36.023	36.023	36.129
242.40	35.138	36.011	36.011	36.117
244.05	35.136	36.003	36.003	36.109
246.62 (RTP)	35.134	35.990	35.990	36.096
254.12	35.145	36.034	36.034	36.141
254.90	35.145	36.039	36.039	36.146
255.00	35.146	36.040	36.040	36.147
261.62	35.150	36.092	36.092	36.199
268.90	35.132	36.155	36.155	36.262
270.00	35.130	36.165	36.165	36.271

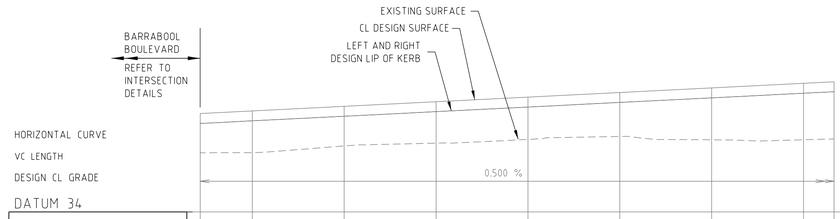
MERULA DRIVE



HORIZONTAL CURVE
VC LENGTH
DESIGN CL GRADE
DATUM 34

CHAINAGE	EXISTING SURFACE	LEFT DESIGN LIP OF KERB	RIGHT DESIGN LIP OF KERB	DESIGN CL SURFACE LEVEL
270.00	35.130	36.165	36.165	36.271
285.00	35.114	36.295	36.295	36.401
289.55	35.120	36.334	36.334	36.441
297.05 (LTP)	35.131	36.367	36.367	36.474
297.10	35.131	36.367	36.367	36.474
297.26	35.131			36.474
300.00	35.132			36.470
300.30	35.132			36.469
304.55	35.129			36.444
313.81	35.114			36.368
315.00	35.112			36.359
316.44	35.109			36.347
317.01 (LTP)	35.108	36.236	36.236	36.343
330.00	35.089	36.147	36.147	36.254
330.21	35.089	36.146	36.146	36.252
345.00	35.097	36.044	36.044	36.150
346.21	35.097	36.035	36.035	36.142
360.00	35.089	35.940	35.940	36.047
362.21	35.088	35.925	35.925	36.032
366.41	35.090	35.896	35.896	36.003
375.00 (TP S)	35.104	35.853	35.853	35.960
376.41	35.106	35.846	35.846	35.953

MERULA DRIVE



HORIZONTAL CURVE
VC LENGTH
DESIGN CL GRADE
DATUM 34

CHAINAGE	EXISTING SURFACE	DESIGN CL SURFACE LEVEL
21.49	34.965	35.605
30.00	34.967	35.648
45.00	35.076	35.723
60.00	35.122	35.798
75.00	35.183	35.873
90.00	35.231	35.948
105.00	35.176	36.023
120.00	35.176	36.098
125.00	35.190	36.123

FUTURE RESIN STREET

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	19/09/19
1	FUTURE RESIN STREET LONGSECTION ADDED	M.L	20/02/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale H 1:500, V 1:50,A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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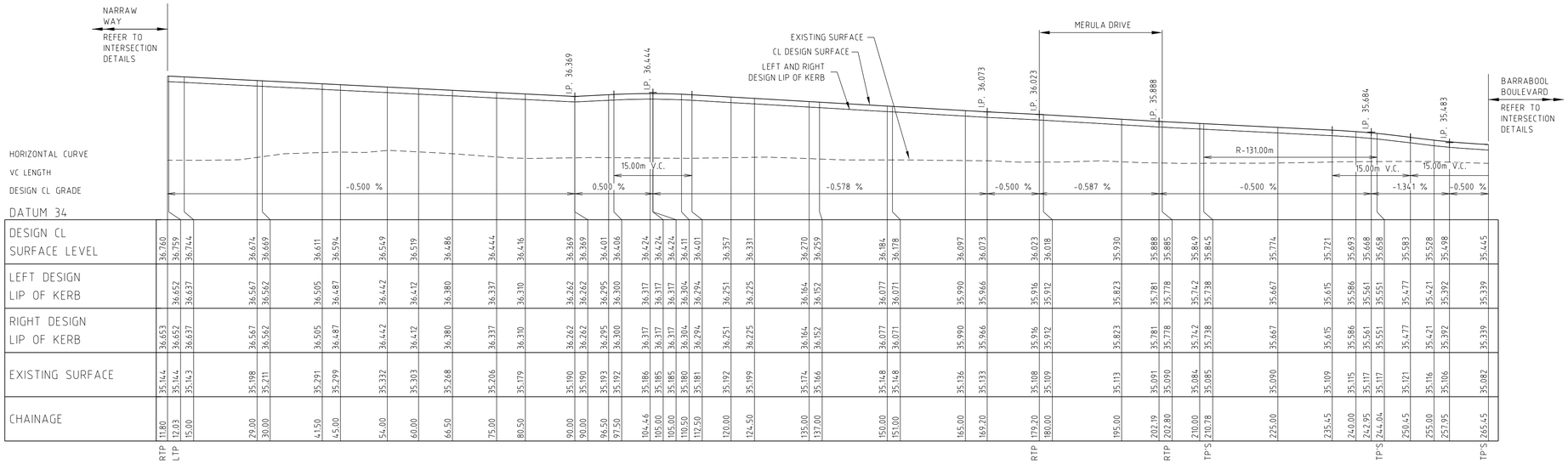
FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

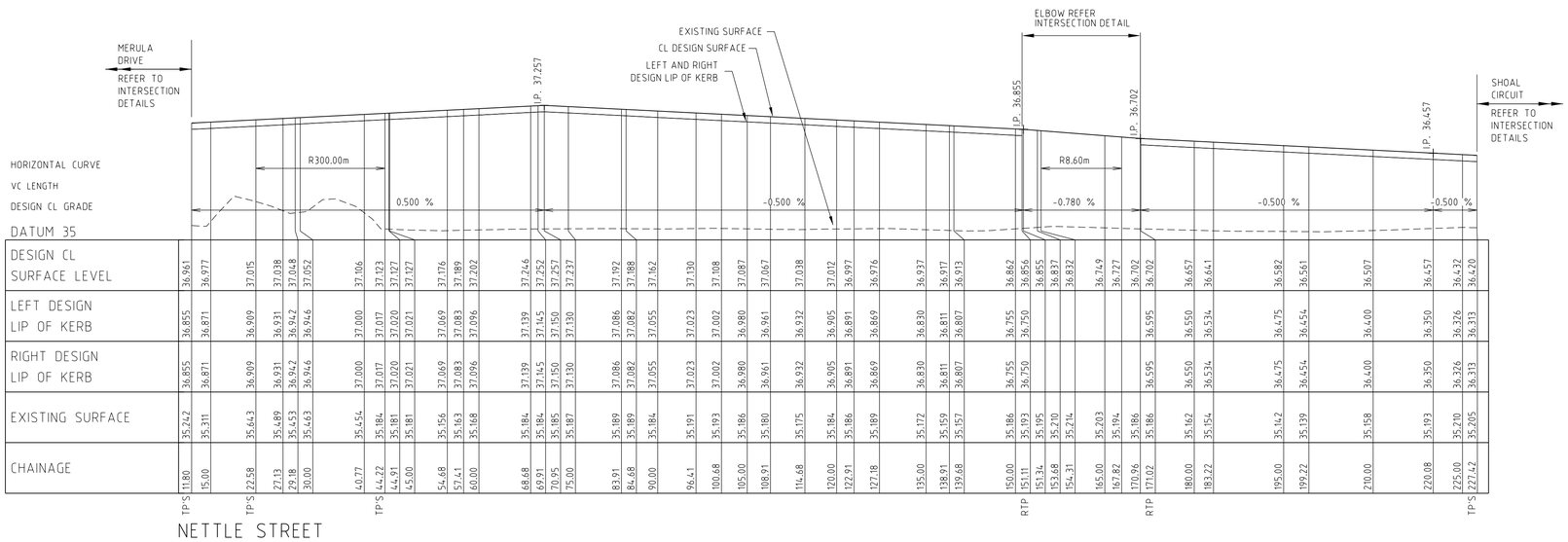
MAMBOURIN ESTATE STAGE 1
LONGITUDINAL SECTION - MERULA DRIVE & RESIN STREET

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303976R06**
Rev **2**



SHOAL CIRCUIT (LOTS 143 TO 160)



NETTLE STREET

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	19/09/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale H 1:500, V 1:50,A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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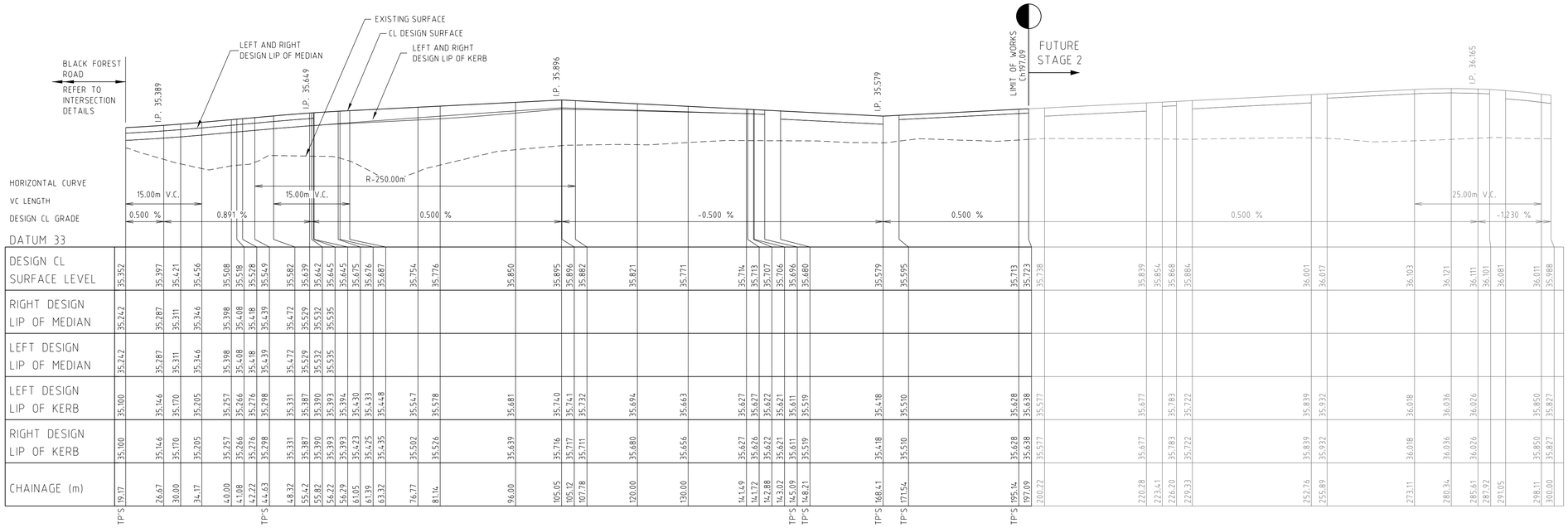
FRASERS PROPERTY

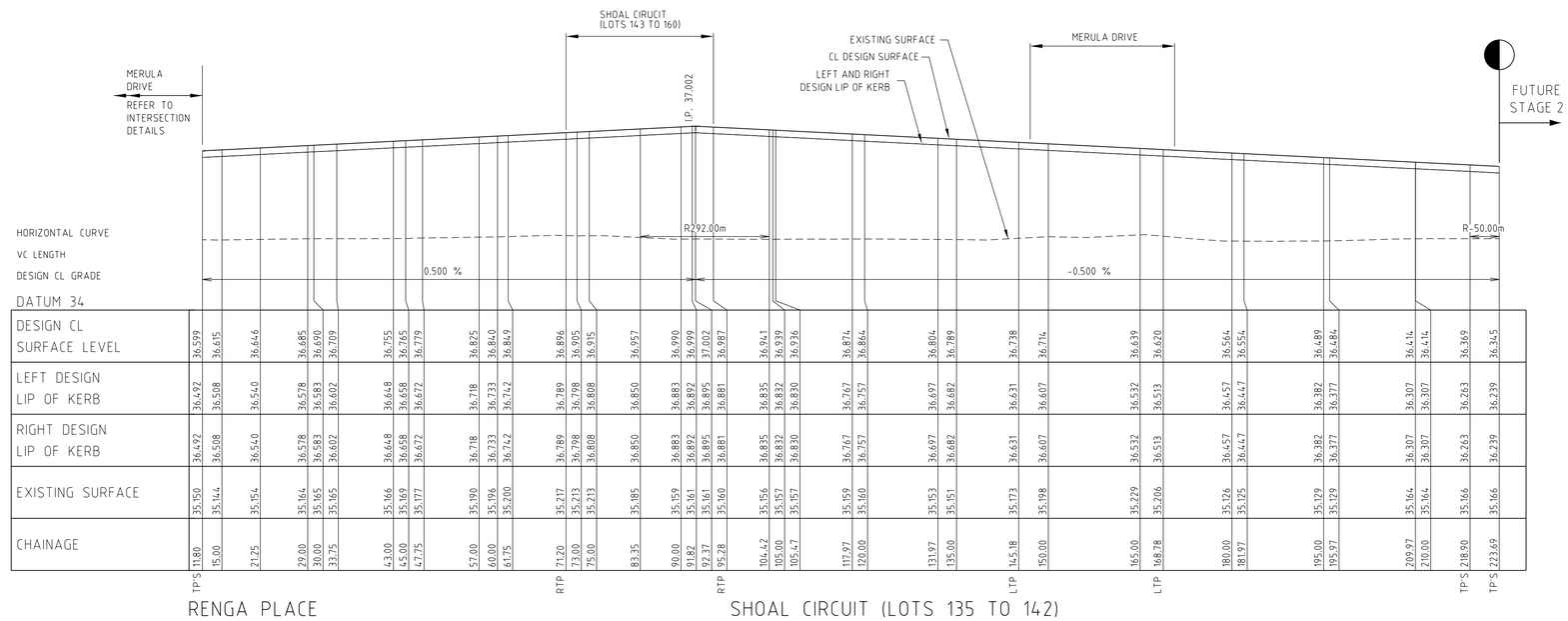
Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE
STAGE 1
LONGITUDINAL SECTION - NETTLE STREET & SHOAL CIRCUIT (LOTS 143 TO 160)

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303976R07** Rev **1**





Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	19/09/19
1	BARRABOOL BOULEVARD UPDATED	M.L	20/02/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale H 1:500, V 1:50,A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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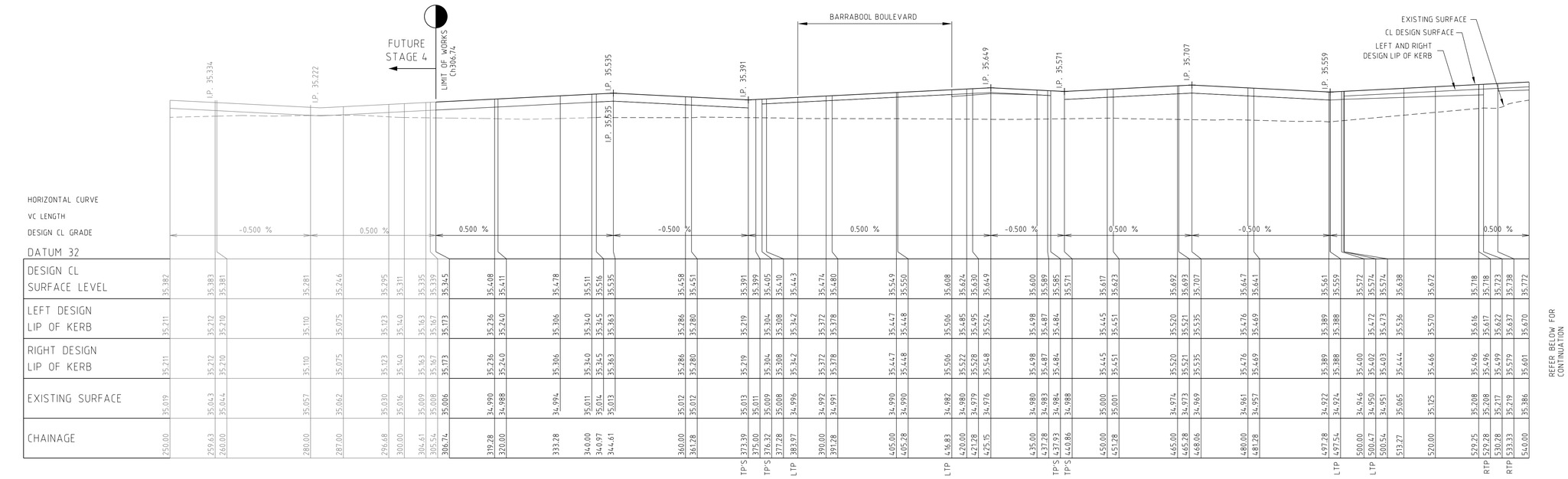
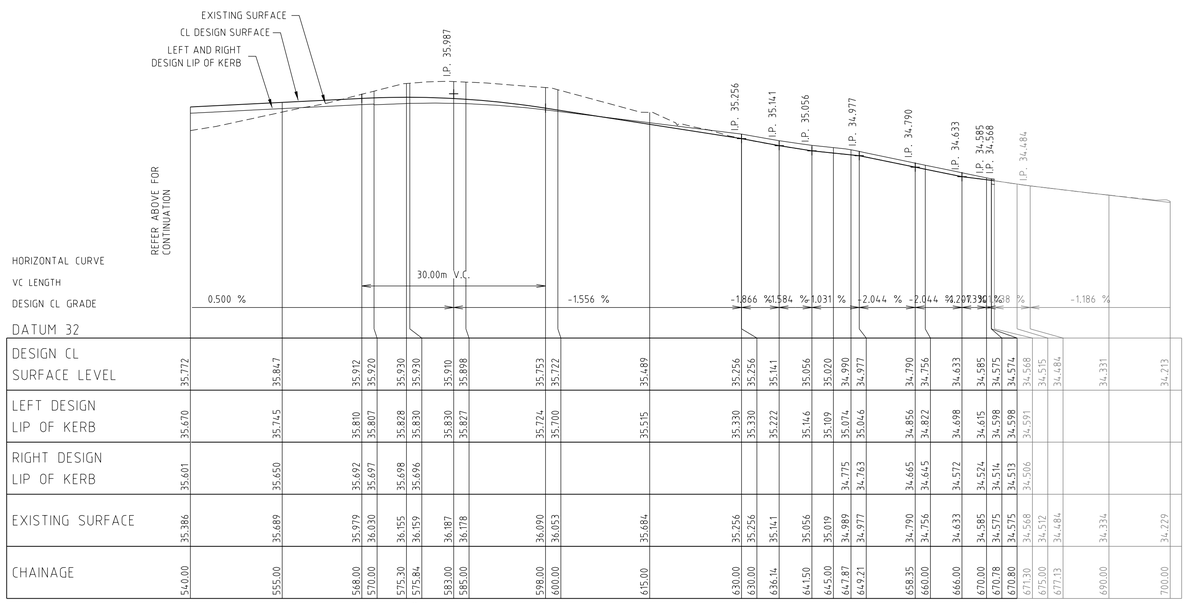
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE STAGE 1
LONGITUDINAL SECTION - BARRABOOL BOULEVARD & SHOAL CIRCUIT (LOTS 135 TO 142)
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

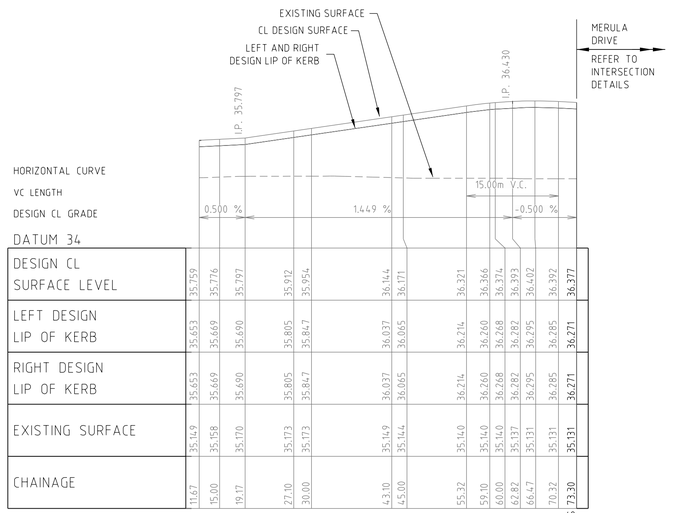
AS CONSTRUCTED Drg No **303976R08** Rev **2**



BLACK FOREST ROAD



BLACK FOREST ROAD



STEM CLOSE

Rev	Amendments	Approved	Date
3	AS CONSTRUCTED	M.L	19/09/19
2	BLACK FOREST ROAD LIMIT OF WORKS WAS Ch304.37	M.L	31/01/19
1	BLACK FOREST ROAD LONG SECTION UPDATED	M.L	27/09/18
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale H 1:500, V 1:50, A1

Horizontal 0 5 10 15 20 25

Vertical 0 0.5 1.0 1.5 2.0 2.5

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Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE STAGE 1

LONGITUDINAL SECTION - BLACKFOREST ROAD & STEM CLOSE

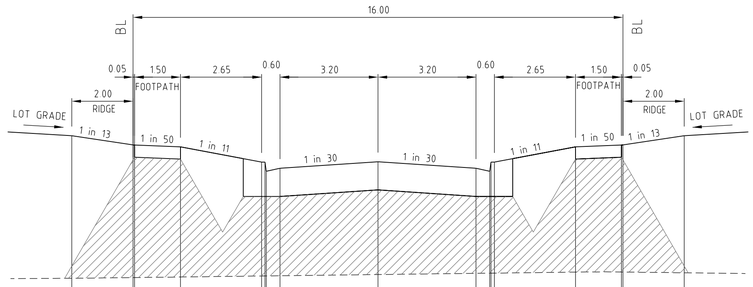
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED

Drg No **303976R09**

Rev **3**

STRUCTURAL FILL

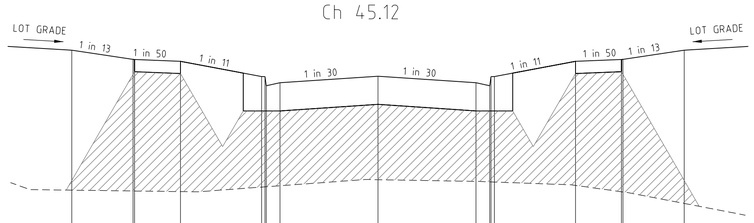


DATUM 34

DESIGN SURFACE LEVEL		37.529		37.379	37.378	37.348		37.098	37.098	36.948	36.998		37.104		36.998	36.948	37.098	37.098		37.348	37.378	37.379		37.529	
EXISTING SURFACE LEVEL		35.202		35.213	35.214	35.223		35.239	35.240	35.240	35.243		35.263		35.282	35.285	35.285	35.286		35.303	35.304	35.304		35.292	
OFFSET	-10.000		-8.000	-7.950		-6.450		-3.800	-3.690	-3.650	-3.200		0.000		3.200	3.650	3.690	3.800		6.450	7.950	8.000		10.000	

MERULA DRIVE

Ch 45.12

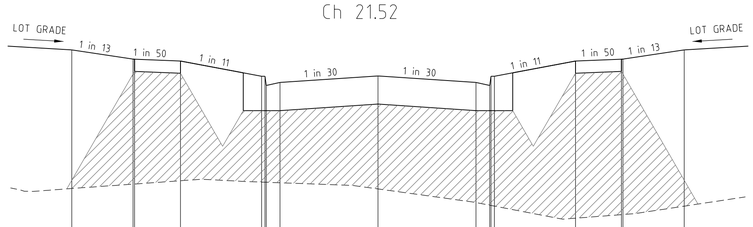


DATUM 34

DESIGN SURFACE LEVEL		37.647		37.497	37.496	37.466		37.216	37.216	37.066	37.116		37.223		37.116	37.066	37.216	37.216		37.466	37.496	37.497		37.647	
EXISTING SURFACE LEVEL		35.362		35.349	35.349	35.339		35.413	35.417	35.418	35.434		35.533		35.505	35.498	35.497	35.495		35.440	35.336	35.333		35.346	
OFFSET	-10.000		-8.000	-7.950		-6.450		-3.800	-3.690	-3.650	-3.200		0.000		3.200	3.650	3.690	3.800		6.450	7.950	8.000		10.000	

MERULA DRIVE

Ch 21.52

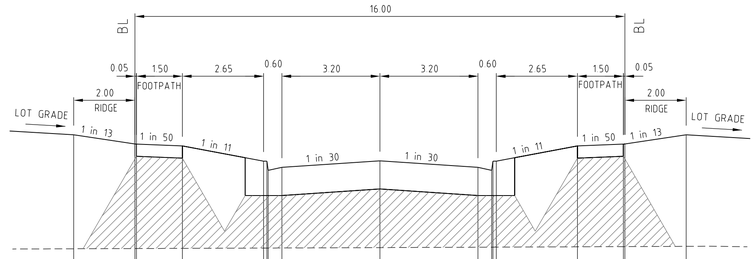


DATUM 34

DESIGN SURFACE LEVEL		37.658		37.508	37.507	37.477		37.227	37.227	37.077	37.127		37.233		37.127	37.077	37.227	37.227		37.477	37.507	37.508		37.658	
EXISTING SURFACE LEVEL		35.395		35.466	35.468	35.522		35.500	35.498	35.497	35.489		35.388		35.166	35.123	35.119	35.108		34.910	34.969	34.970		35.107	
OFFSET	-10.000		-8.000	-7.950		-6.450		-3.800	-3.690	-3.650	-3.200		0.000		3.200	3.650	3.690	3.800		6.450	7.950	8.000		10.000	

MERULA DRIVE

Ch 19.40

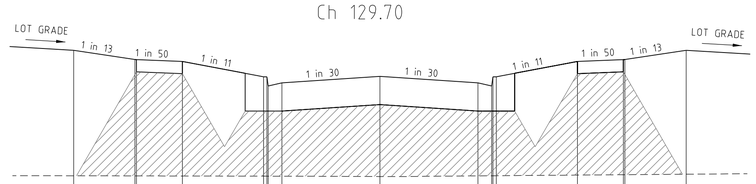


DATUM 34

DESIGN SURFACE LEVEL		37.106		36.956	36.955	36.925		36.675	36.675	36.525	36.575		36.681		36.575	36.525	36.675	36.675		36.925	36.955	36.956		37.106	
EXISTING SURFACE LEVEL		35.245		35.249	35.249	35.252		35.257	35.257	35.257	35.258		35.264		35.271	35.271	35.272	35.272		35.277	35.280	35.281		35.285	
OFFSET	-10.000		-8.000	-7.950		-6.450		-3.800	-3.690	-3.650	-3.200		0.000		3.200	3.650	3.690	3.800		6.450	7.950	8.000		10.000	

MERULA DRIVE

Ch 129.70

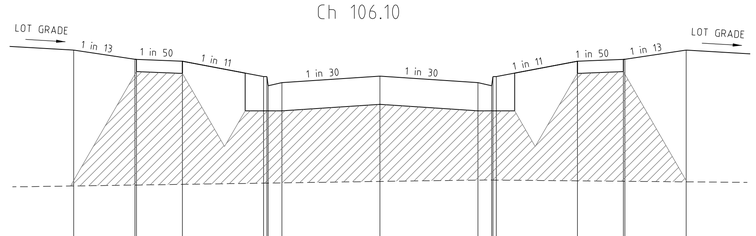


DATUM 34

DESIGN SURFACE LEVEL		37.224		37.074	37.073	37.043		36.793	36.793	36.643	36.693		36.799		36.693	36.643	36.793	36.793		37.043	37.073	37.074		37.224	
EXISTING SURFACE LEVEL		35.176		35.174	35.174	35.173		35.170	35.170	35.170	35.169		35.164		35.175	35.176	35.177	35.177		35.188	35.193	35.194		35.202	
OFFSET	-10.000		-8.000	-7.950		-6.450		-3.800	-3.690	-3.650	-3.200		0.000		3.200	3.650	3.690	3.800		6.450	7.950	8.000		10.000	

MERULA DRIVE

Ch 106.10



DATUM 34

DESIGN SURFACE LEVEL		37.377		37.227	37.226	37.196		36.946	36.946	36.796	36.846		36.952		36.846	36.796	36.946	36.946		37.196	37.226	37.227		37.377	
EXISTING SURFACE LEVEL		35.159		35.174	35.174	35.185		35.205	35.206	35.206	35.209		35.233		35.255	35.256	35.255	35.255		35.243	35.236	35.236		35.227	
OFFSET	-10.000		-8.000	-7.950		-6.450		-3.800	-3.690	-3.650	-3.200		0.000		3.200	3.650	3.690	3.800		6.450	7.950	8.000		10.000	

MERULA DRIVE

Ch 75.57

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	19/09/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale V 1:100, V 1:50, A1
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

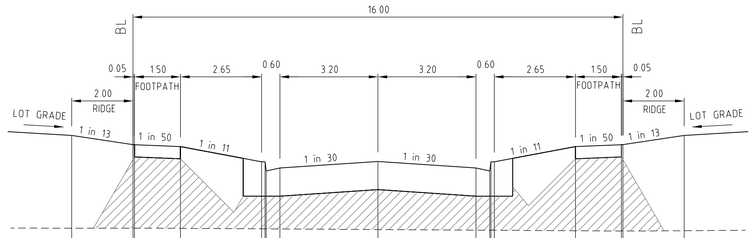
Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE STAGE 1
CROSS SECTIONS - MERULA DRIVE

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303976R10**
Rev **1**

STRUCTURAL FILL

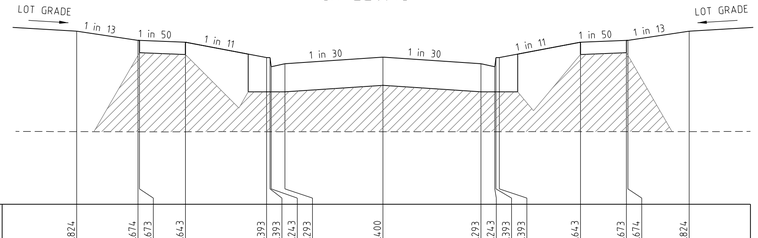


DATUM 34

DESIGN SURFACE LEVEL	36.652	36.502	36.501	36.471	36.221	36.221	36.221	36.071	36.121	36.227	36.121	36.071	36.221	36.221	36.471	36.501	36.502	36.652
EXISTING SURFACE LEVEL	35.138	35.138	35.138	35.135	35.127	35.127	35.127	35.126	35.125	35.115	35.105	35.104	35.104	35.103	35.095	35.092	35.092	35.096
OFFSET	-10.000	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200		0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000	10.000

MERULA DRIVE

Ch 220.45

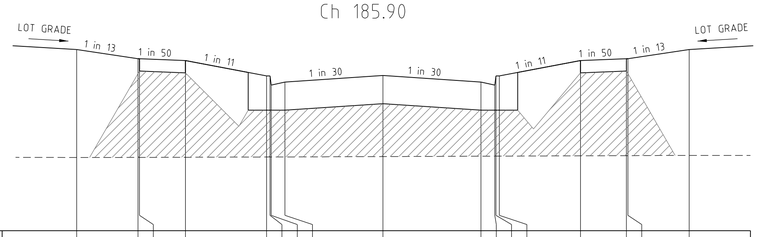


DATUM 34

DESIGN SURFACE LEVEL	36.824	36.674	36.673	36.643	36.393	36.393	36.243	36.293		36.400	36.293	36.243	36.393	36.393	36.643	36.673	36.674	36.824
EXISTING SURFACE LEVEL	35.185	35.182	35.182	35.182	35.184	35.184	35.184	35.184		35.183	35.184	35.184	35.184	35.184	35.185	35.185	35.185	35.186
OFFSET	-10.000	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200		0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000	10.000

MERULA DRIVE

Ch 185.90

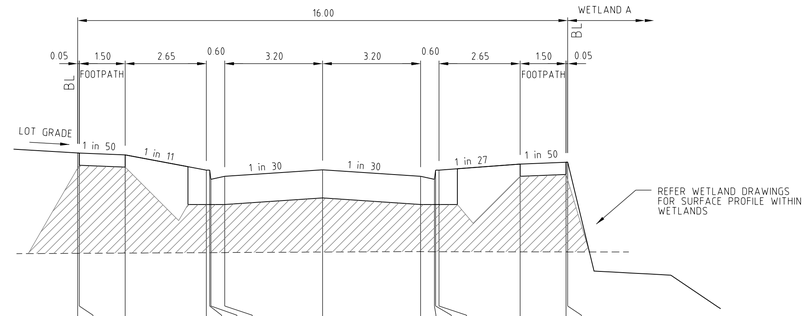


DATUM 34

DESIGN SURFACE LEVEL	36.957	36.807	36.806	36.776	36.526	36.526	36.376	36.426		36.533	36.426	36.376	36.526	36.526	36.776	36.806	36.807	36.957
EXISTING SURFACE LEVEL	35.194	35.195	35.195	35.198	35.202	35.202	35.202	35.203		35.209	35.215	35.216	35.216	35.216	35.221	35.224	35.224	35.228
OFFSET	-10.000	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200		0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000	10.000

MERULA DRIVE

Ch 159.40

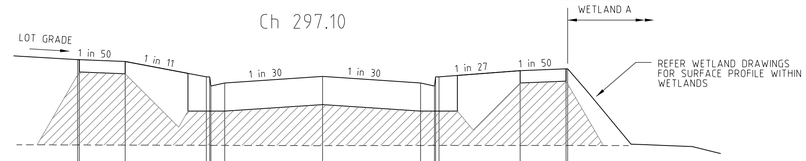


DATUM 34

DESIGN SURFACE LEVEL	36.748	36.747	36.717	36.467	36.467	36.317	36.367	36.474		36.367	36.317	36.467	36.467	36.567	36.597	36.598
EXISTING SURFACE LEVEL	35.110	35.110	35.114	35.121	35.121	35.121	35.122	35.131		35.137	35.136	35.136	35.136	35.134	35.133	35.133
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000		3.200	3.650	3.690	3.800	6.450	7.950	8.000

MERULA DRIVE

Ch 297.10

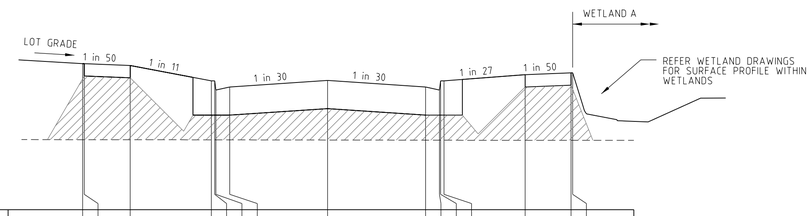


DATUM 34

DESIGN SURFACE LEVEL	36.536	36.535	36.505	36.255	36.255	36.105	36.155	36.262		36.155	36.105	36.255	36.255	36.355	36.385	36.386
EXISTING SURFACE LEVEL	35.143	35.143	35.141	35.137	35.137	35.137	35.136	35.132		35.135	35.135	35.135	35.135	35.135	35.134	35.134
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000		3.200	3.650	3.690	3.800	6.450	7.950	8.000

MERULA DRIVE

Ch 268.90



DATUM 34

DESIGN SURFACE LEVEL	36.384	36.383	36.353	36.103	36.103	35.953	36.003	36.109		36.003	35.953	36.103	36.103	36.203	36.233	36.234
EXISTING SURFACE LEVEL	35.141	35.141	35.141	35.139	35.139	35.139	35.139	35.136		35.134	35.134	35.133	35.133	35.131	35.132	35.132
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000		3.200	3.650	3.690	3.800	6.450	7.950	8.000

MERULA DRIVE

Ch 244.05

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	19/09/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale V 1:100, V 1:50,A1
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

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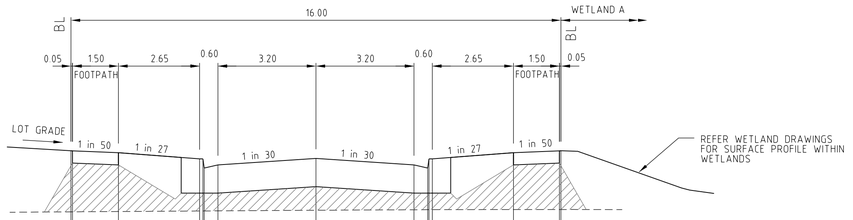
Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE
STAGE 1
CROSS SECTIONS - MERULA DRIVE

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303976R11** Rev **1**

STRUCTURAL FILL

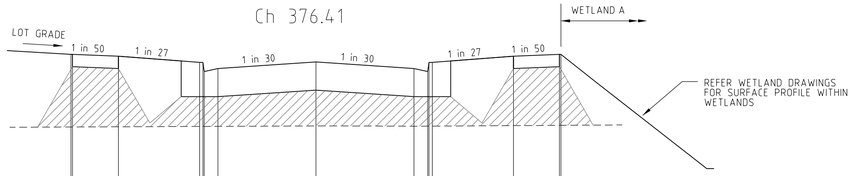


DATUM 34

DESIGN SURFACE LEVEL	36.077	36.076	36.046	35.946	35.946	35.846	35.953	35.846	35.796	35.946	35.946	36.046	36.076	36.077
EXISTING SURFACE LEVEL	35.081	35.081	35.086	35.094	35.095	35.096	35.106	35.114	35.116	35.116	35.116	35.118	35.119	35.119
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

MERULA DRIVE

Ch 376.41

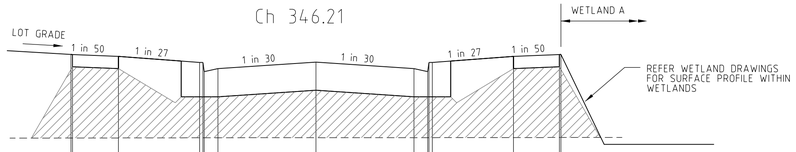


DATUM 34

DESIGN SURFACE LEVEL	36.266	36.265	36.235	36.135	36.135	35.985	36.035	36.142	36.035	35.985	36.135	36.235	36.265	36.266
EXISTING SURFACE LEVEL	35.080	35.080	35.083	35.089	35.089	35.089	35.090	35.097	35.092	35.093	35.094	35.102	35.107	35.107
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

MERULA DRIVE

Ch 346.21

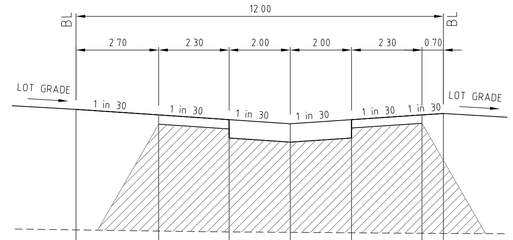


DATUM 34

DESIGN SURFACE LEVEL	36.467	36.466	36.436	36.336	36.336	36.186	36.236	36.343	36.236	36.186	36.336	36.436	36.466	36.467
EXISTING SURFACE LEVEL	35.103	35.103	35.104	35.107	35.107	35.107	35.107	35.108	35.110	35.110	35.110	35.111	35.112	35.112
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

MERULA DRIVE

Ch 317.01

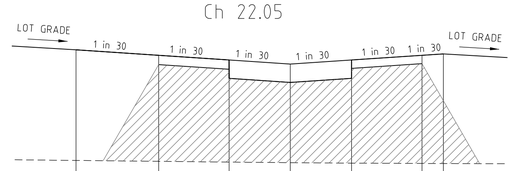


DATUM 34

DESIGN SURFACE LEVEL	37.233	37.143	37.067	37.000	37.067	37.143	37.166	
EXISTING SURFACE LEVEL	35.267	35.248	35.234	35.227	35.219	35.211	35.209	
OFFSET	-7.000	-4.300	-2.000	0.000	2.000	4.300	5.000	

LONG DRIVEWAY

Ch 22.05



DATUM 34

DESIGN SURFACE LEVEL	37.066	36.976	36.900	36.833	36.900	36.976	36.999	
EXISTING SURFACE LEVEL	35.260	35.245	35.233	35.223	35.216	35.211	35.209	
OFFSET	-7.000	-4.300	-2.000	0.000	2.000	4.300	5.000	

LONG DRIVEWAY

Ch 13.78

Rev	Amendments	Approved	Date
3	AS CONSTRUCTED	M.L	19/09/19
2	MERULA DRIVE EASTERN FOOTPATH ADDED	M.L	07/03/19
1	MERULA DRIVE EASTERN FOOTPATH REMOVED	M.L	18/01/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale V 1:100, V 1:50, A1
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE STAGE 1

CROSS SECTIONS - MERULA DRIVE & LONG DRIVEWAY

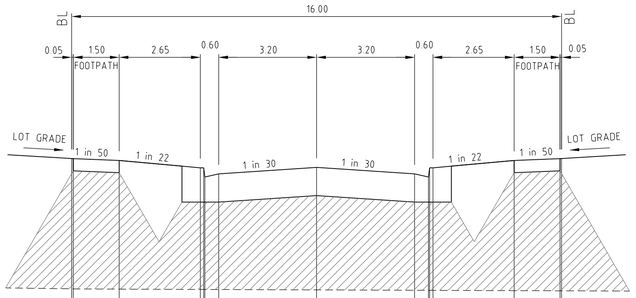
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED

Drg No **303976R12**

Rev **3**

STRUCTURAL FILL

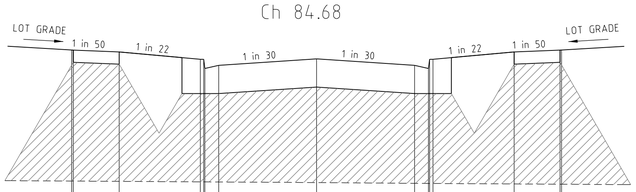


DATUM 34

DESIGN SURFACE LEVEL	37.333	37.332	37.302	37.182	37.182	37.032	37.082	37.188	37.082	37.032	37.182	37.182	37.302	37.332	37.333
EXISTING SURFACE LEVEL	35.206	35.206	35.201	35.196	35.196	35.196	35.195	35.189	35.182	35.181	35.181	35.181	35.176	35.174	35.174
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

NETTLE STREET

Ch 84.68

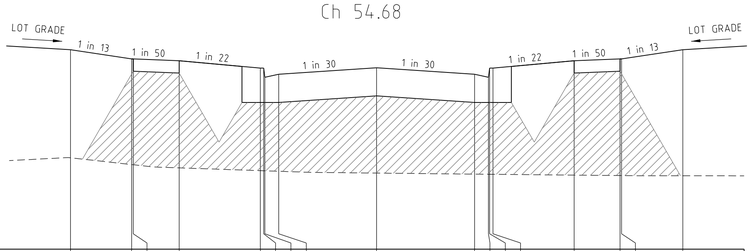


DATUM 34

DESIGN SURFACE LEVEL	37.320	37.319	37.289	37.169	37.169	37.019	37.069	37.176	37.069	37.019	37.169	37.169	37.289	37.319	37.320
EXISTING SURFACE LEVEL	35.181	35.180	35.176	35.168	35.167	35.167	35.166	35.156	35.144	35.142	35.142	35.141	35.134	35.129	35.129
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

NETTLE STREET

Ch 54.68

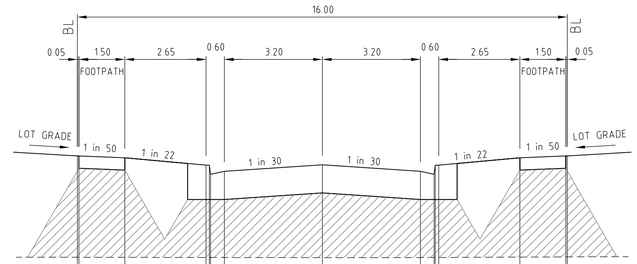


DATUM 34

DESIGN SURFACE LEVEL	37.256	37.106	37.105	37.075	36.955	36.955	36.805	36.855	36.961	36.855	36.805	36.955	36.955	37.075	37.105	37.106	37.256
EXISTING SURFACE LEVEL	35.491	35.381	35.378	35.327	35.281	35.279	35.279	35.271	35.242	35.224	35.222	35.222	35.221	35.208	35.201	35.201	35.198
OFFSET	-10.000	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000	10.000

NETTLE STREET

Ch 11.80

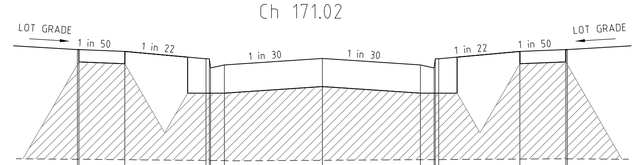


DATUM 34

DESIGN SURFACE LEVEL	36.846	36.845	36.815	36.695	36.695	36.545	36.595	36.702	36.595	36.545	36.695	36.695	36.815	36.845	36.846
EXISTING SURFACE LEVEL	35.191	35.191	35.190	35.188	35.188	35.188	35.188	35.186	35.188	35.189	35.189	35.189	35.194	35.197	35.197
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

NETTLE STREET

Ch 171.02

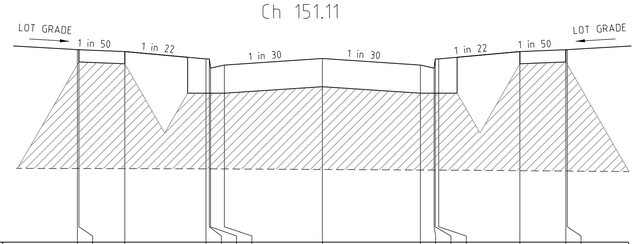


DATUM 34

DESIGN SURFACE LEVEL	37.001	37.000	36.970	36.850	36.850	36.700	36.750	36.856	36.750	36.700	36.850	36.850	36.970	37.000	37.001
EXISTING SURFACE LEVEL	35.210	35.209	35.203	35.191	35.190	35.190	35.188	35.193	35.203	35.205	35.205	35.205	35.213	35.216	35.216
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

NETTLE STREET

Ch 151.11



DATUM 34

DESIGN SURFACE LEVEL	37.142	37.141	37.111	36.991	36.991	36.841	36.891	36.997	36.891	36.841	36.991	36.991	37.111	37.141	37.142
EXISTING SURFACE LEVEL	35.201	35.201	35.200	35.196	35.196	35.196	35.195	35.186	35.177	35.176	35.176	35.176	35.167	35.161	35.160
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

NETTLE STREET

Ch 122.91

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	19/09/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale V 1:100, V 1:50, A1
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE
STAGE 1
CROSS SECTIONS - NETTLE STREET

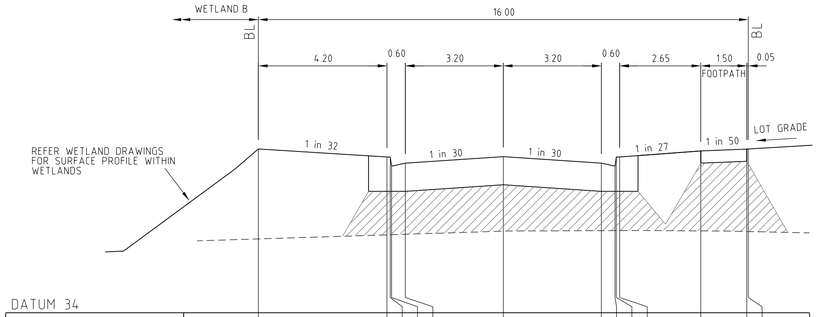
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED

Drg No **303976R13**

Rev **1**

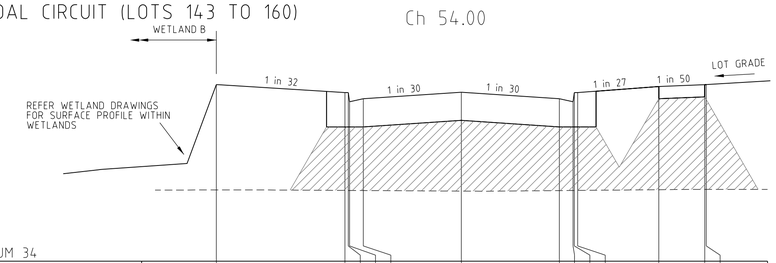
STRUCTURAL FILL



DATUM 34

DESIGN SURFACE LEVEL	36.673	36.542	36.542	36.392	36.442	36.549	36.442	36.392	36.542	36.542	36.642	36.672	36.673
EXISTING SURFACE LEVEL	35.206	35.272	35.274	35.274	35.282	35.332	35.340	35.341	35.341	35.341	35.336	35.326	35.326
OFFSET	-8.000	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

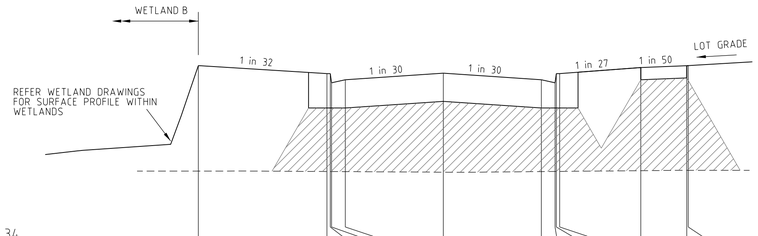
SHOAL CIRCUIT (LOTS 143 TO 160) Ch 54.00



DATUM 34

DESIGN SURFACE LEVEL	36.883	36.752	36.752	36.602	36.652	36.759	36.652	36.602	36.752	36.752	36.852	36.882	36.883
EXISTING SURFACE LEVEL	35.163	35.155	35.155	35.155	35.154	35.144	35.153	35.155	35.155	35.155	35.167	35.172	35.172
OFFSET	-8.000	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

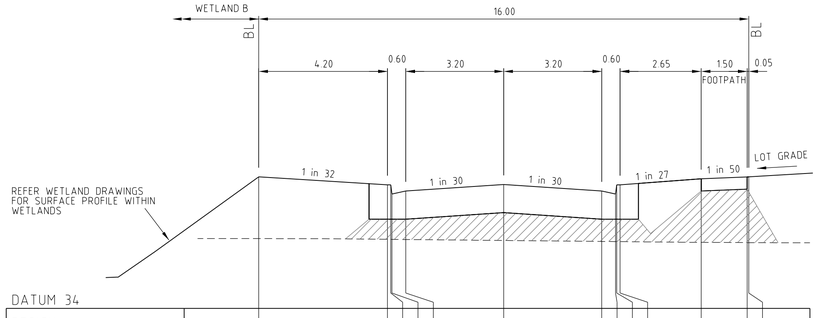
SHOAL CIRCUIT (LOTS 143 TO 160) Ch 12.03



DATUM 34

DESIGN SURFACE LEVEL	36.884	36.753	36.753	36.603	36.653	36.760	36.653	36.603	36.753	36.753	36.853	36.883	36.884
EXISTING SURFACE LEVEL	35.163	35.156	35.155	35.155	35.154	35.144	35.154	35.156	35.157	35.157	35.169	35.174	35.174
OFFSET	-8.000	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

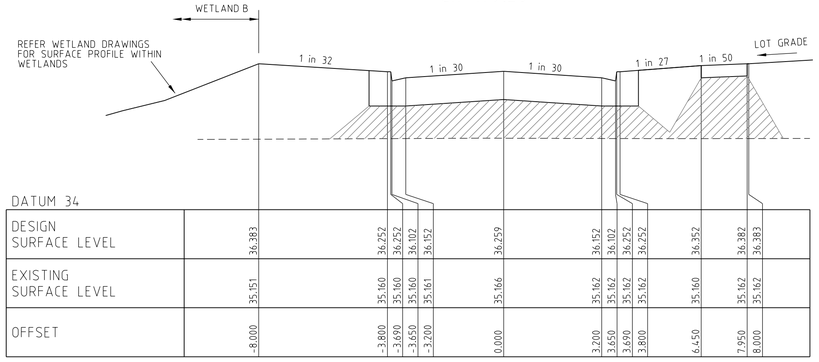
SHOAL CIRCUIT (LOTS 143 TO 160) Ch 11.80



DATUM 34

DESIGN SURFACE LEVEL	36.147	36.016	36.016	35.866	35.916	36.023	35.916	35.866	36.016	36.016	36.116	36.146	36.147
EXISTING SURFACE LEVEL	35.139	35.127	35.127	35.126	35.124	35.108	35.093	35.090	35.090	35.090	35.077	35.073	35.073
OFFSET	-8.000	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

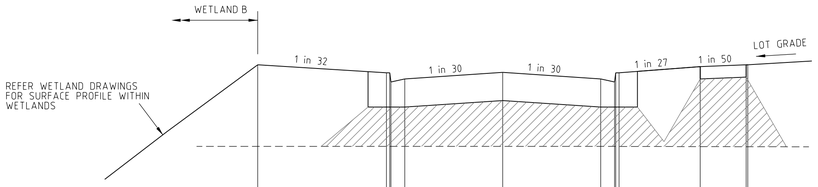
SHOAL CIRCUIT (LOTS 143 TO 160) Ch 179.20



DATUM 34

DESIGN SURFACE LEVEL	36.383	36.252	36.252	36.102	36.152	36.259	36.152	36.102	36.252	36.252	36.352	36.382	36.383
EXISTING SURFACE LEVEL	35.151	35.160	35.160	35.160	35.161	35.166	35.162	35.162	35.162	35.162	35.160	35.162	35.162
OFFSET	-8.000	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

SHOAL CIRCUIT (LOTS 143 TO 160) Ch 137.00



DATUM 34

DESIGN SURFACE LEVEL	36.526	36.395	36.395	36.245	36.295	36.401	36.295	36.245	36.395	36.395	36.495	36.525	36.526
EXISTING SURFACE LEVEL	35.193	35.193	35.193	35.193	35.193	35.193	35.193	35.192	35.192	35.192	35.190	35.188	35.188
OFFSET	-8.000	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

SHOAL CIRCUIT (LOTS 143 TO 160) Ch 96.50

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	19/09/19
1	SHOAL CIRCUIT WESTERN FOOTPATH REMOVED	M.L	31/01/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale V 1:100, V 1:50, A1
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

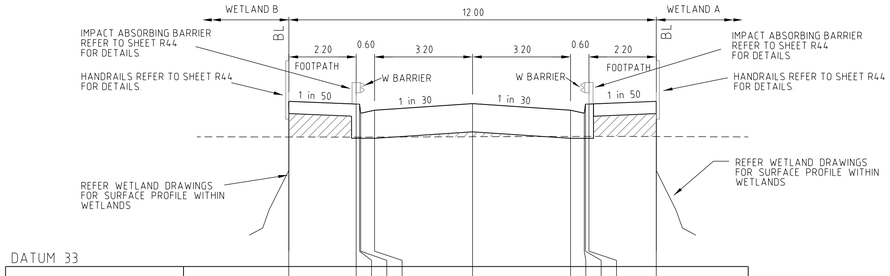
Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE STAGE 1
CROSS SECTIONS - SHOAL CIRUCIT (LOTS 143 TO 160)

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303976R14**
Rev **2**

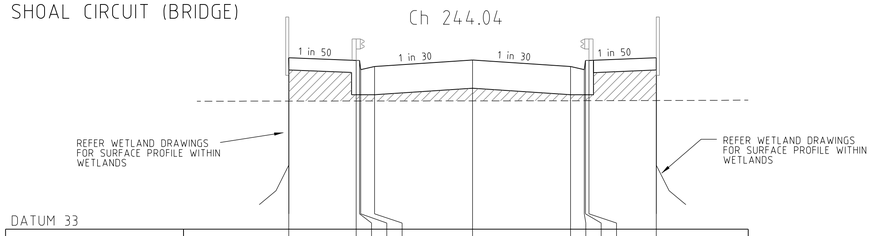
STRUCTURAL FILL



DATUM 33

DESIGN SURFACE LEVEL	35.695	35.651	35.651	35.501	35.551	35.658	35.551	35.501	35.651	35.651	35.695	
EXISTING SURFACE LEVEL	35.114	35.111	35.112	35.112	35.112	35.117	35.122	35.123	35.123	35.123	35.121	
OFFSET	-6.000	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.000	

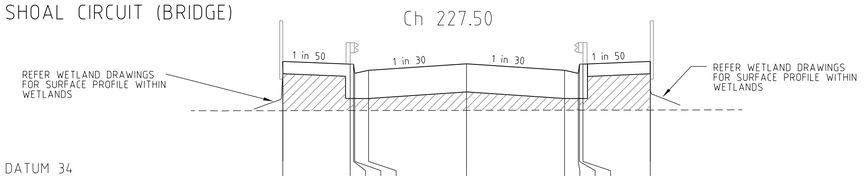
SHOAL CIRCUIT (BRIDGE) Ch 244.04



DATUM 33

DESIGN SURFACE LEVEL	35.799	35.755	35.755	35.605	35.655	35.761	35.655	35.605	35.755	35.755	35.799	
EXISTING SURFACE LEVEL	35.091	35.092	35.092	35.092	35.092	35.094	35.096	35.097	35.097	35.097	35.100	
OFFSET	-6.000	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.000	

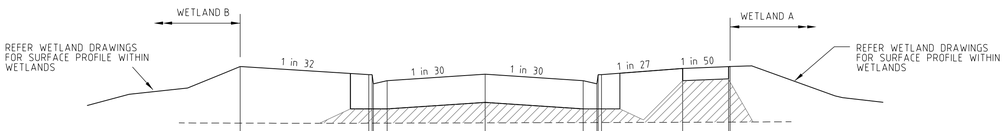
SHOAL CIRCUIT (BRIDGE) Ch 227.50



DATUM 34

DESIGN SURFACE LEVEL	35.882	35.838	35.838	35.688	35.738	35.845	35.738	35.688	35.838	35.838	35.882	
EXISTING SURFACE LEVEL	35.079	35.081	35.081	35.081	35.082	35.085	35.088	35.088	35.088	35.088	35.090	
OFFSET	-6.000	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.000	

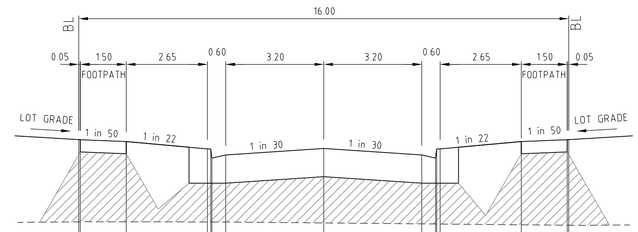
SHOAL CIRCUIT (BRIDGE) Ch 210.78



DATUM 34

DESIGN SURFACE LEVEL	36.009	35.878	35.878	35.728	35.778	35.885	35.778	35.728	35.878	35.878	35.978	36.008	36.009
EXISTING SURFACE LEVEL	35.085	35.084	35.085	35.085	35.085	35.090	35.094	35.095	35.095	35.095	35.099	35.102	35.102
OFFSET	-8.000	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

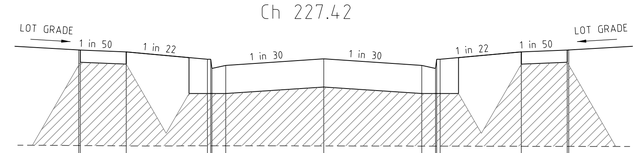
SHOAL CIRCUIT (LOTS 143 TO 160) Ch 202.80



DATUM 34

DESIGN SURFACE LEVEL	36.564	36.563	36.533	36.413	36.413	36.263	36.313	36.420	36.313	36.263	36.413	36.413	36.533	36.563	36.564
EXISTING SURFACE LEVEL	35.222	35.222	35.222	35.220	35.220	35.220	35.220	35.205	35.190	35.187	35.187	35.187	35.174	35.167	35.167
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

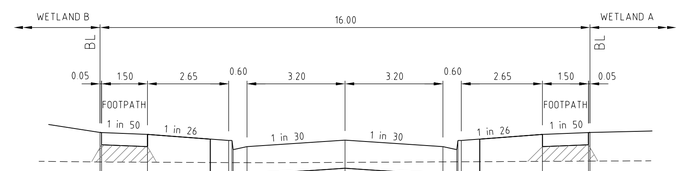
NETTLE STREET Ch 227.42



DATUM 34

DESIGN SURFACE LEVEL	36.705	36.704	36.674	36.554	36.554	36.404	36.454	36.561	36.454	36.404	36.554	36.554	36.674	36.704	36.705
EXISTING SURFACE LEVEL	35.146	35.146	35.141	35.142	35.142	35.142	35.141	35.139	35.136	35.136	35.136	35.136	35.133	35.132	35.132
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

NETTLE STREET Ch 199.22



DATUM 34

DESIGN SURFACE LEVEL	35.569	35.568	35.538	35.438	35.438	35.288	35.338	35.445	35.338	35.288	35.438	35.438	35.538	35.568	35.569
EXISTING SURFACE LEVEL	35.088	35.088	35.084	35.078	35.078	35.078	35.077	35.082	35.090	35.091	35.091	35.091	35.098	35.102	35.102
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

SHOAL CIRCUIT (LOTS 143 TO 160) Ch 265.45

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	19/09/19
1	SHOAL CIRCUIT CH202.80 WESTERN FOOTPATH REMOVED	M.L	31/01/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale V 1:100, V 1:50, A1
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

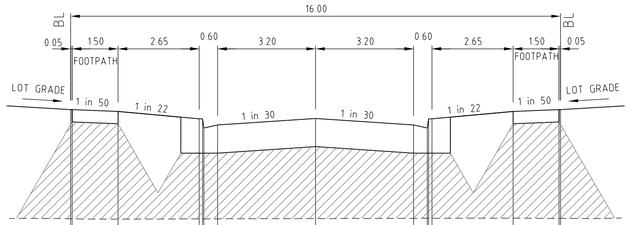
Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE STAGE 1
CROSS SECTIONS - SHOAL CIRUCIT (LOTS 143 TO 160) & NETTLE STREET

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303976R15** Rev **2**

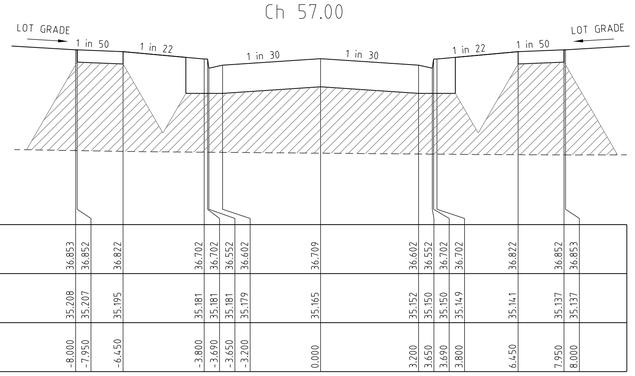
STRUCTURAL FILL



DATUM 34

DESIGN SURFACE LEVEL		36.969	36.968	36.938		36.818	36.818	36.688	36.718		36.825		36.718	36.688	36.818	36.818		36.938		36.968	36.969								
EXISTING SURFACE LEVEL		35.188	35.187	35.182		35.185	35.185	35.185	35.186		35.190		35.195	35.195	35.195	35.196		35.197		35.193	35.193								
OFFSET		-8.000	-7.950	-6.450		-3.800	-3.690	-3.650	-3.200		0.000		3.200	3.650	3.690	3.800		6.450		7.950	8.000								

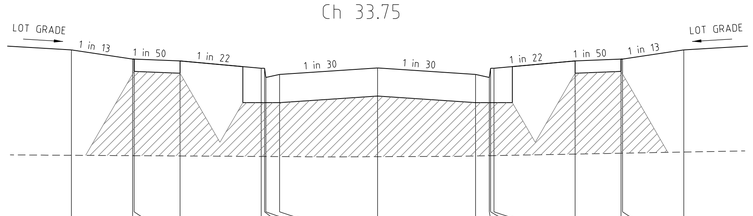
RENGA PLACE Ch 57.00



DATUM 34

DESIGN SURFACE LEVEL		36.853	36.852	36.822		36.702	36.702	36.552	36.602		36.709		36.602	36.552	36.702	36.702		36.822		36.852	36.853								
EXISTING SURFACE LEVEL		35.208	35.207	35.195		35.181	35.181	35.181	35.179		35.165		35.152	35.150	35.150	35.149		35.141		35.137	35.137								
OFFSET		-8.000	-7.950	-6.450		-3.800	-3.690	-3.650	-3.200		0.000		3.200	3.650	3.690	3.800		6.450		7.950	8.000								

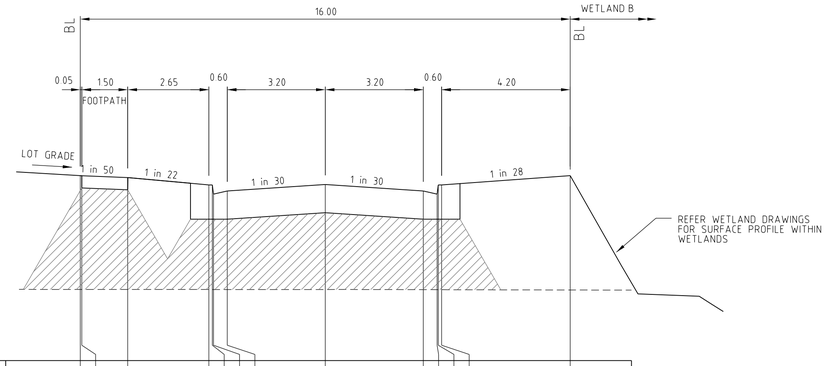
RENGA PLACE Ch 33.75



DATUM 34

DESIGN SURFACE LEVEL	36.893	36.743	36.742	36.712		36.592	36.592	36.442	36.492		36.599		36.492	36.442	36.592	36.592		36.712		36.742	36.743	36.893							
EXISTING SURFACE LEVEL	35.173	35.166	35.166	35.161		35.153	35.153	35.152	35.151		35.150		35.161	35.165	35.166	35.167		35.192		35.206	35.206	35.225							
OFFSET	-10.000	-8.000	-7.950	-6.450		-3.800	-3.690	-3.650	-3.200		0.000		3.200	3.650	3.690	3.800		6.450		7.950	8.000	10.000							

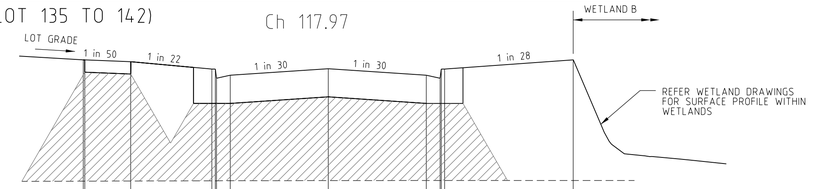
RENGA PLACE Ch 11.80



DATUM 34

DESIGN SURFACE LEVEL		37.018	37.017	36.987		36.867	36.867	36.717	36.767		36.874		36.767	36.717	36.867	36.867				37.018									
EXISTING SURFACE LEVEL		35.161	35.161	35.160		35.160	35.160	35.160	35.159		35.159		35.157	35.156	35.156	35.156				35.151									
OFFSET		-8.000	-7.950	-6.450		-3.800	-3.690	-3.650	-3.200		0.000		3.200	3.650	3.690	3.800				8.000									

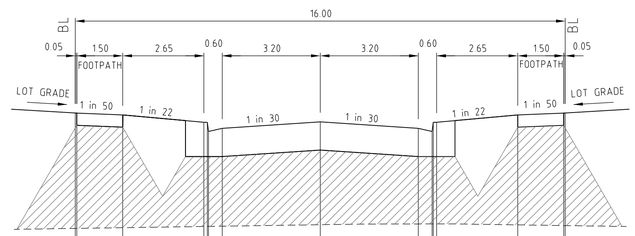
SHOAL CIRCUIT (LOT 135 TO 142) Ch 117.97



DATUM 34

DESIGN SURFACE LEVEL		37.132	37.131	37.101		36.981	36.981	36.831	36.881		36.987		36.881	36.831	36.981	36.981				37.132									
EXISTING SURFACE LEVEL		35.151	35.151	35.153		35.157	35.157	35.157	35.158		35.160		35.162	35.162	35.162	35.162				35.161									
OFFSET		-8.000	-7.950	-6.450		-3.800	-3.690	-3.650	-3.200		0.000		3.200	3.650	3.690	3.800				8.000									

SHOAL CIRCUIT (LOT 135 TO 142) Ch 95.28



DATUM 34

DESIGN SURFACE LEVEL		37.040	37.039	37.009		36.889	36.889	36.739	36.789		36.896		36.789	36.739	36.889	36.889		37.009		37.039	37.040								
EXISTING SURFACE LEVEL		35.156	35.156	35.168		35.188	35.189	35.189	35.192		35.217		35.229	35.230	35.230	35.230		35.214		35.203	35.202								
OFFSET		-8.000	-7.950	-6.450		-3.800	-3.690	-3.650	-3.200		0.000		3.200	3.650	3.690	3.800		6.450		7.950	8.000								

RENGA PLACE Ch 71.20

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	19/09/19
1	SHOAL CIRCUIT EASTERN FOOTPATH REMOVED	M.L	31/01/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale V 1:100, V 1:50, A1
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

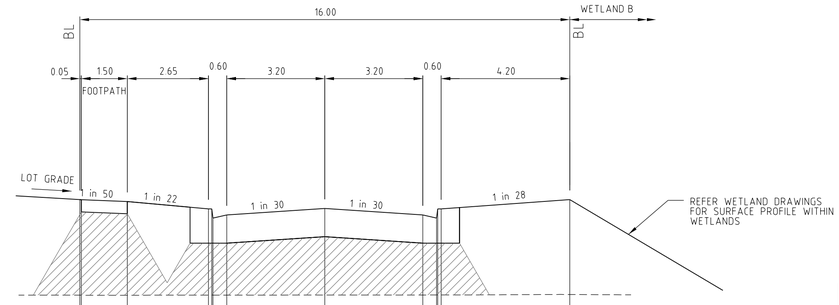
Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE STAGE 1
CROSS SECTIONS - SHOAL CIRUCIT (LOTS 135 TO 142) & RENGA PLACE

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303976R16**
Rev **2**

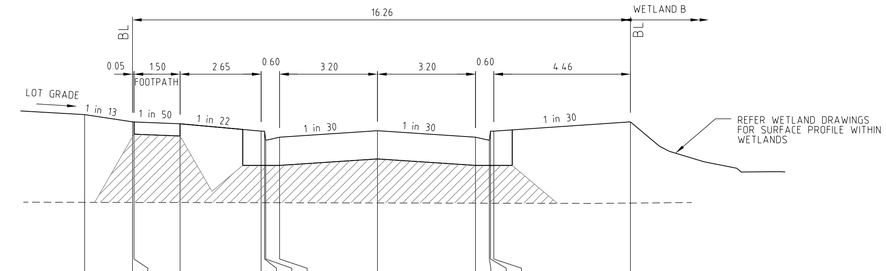
STRUCTURAL FILL



DATUM 34

DESIGN SURFACE LEVEL	36.764	36.763	36.733	36.613	36.613	36.463	36.513	36.620	36.513	36.463	36.613	36.613	36.764
EXISTING SURFACE LEVEL	35.204	35.204	35.204	35.205	35.205	35.205	35.205	35.206	35.207	35.208	35.208	35.208	35.216
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	8.000

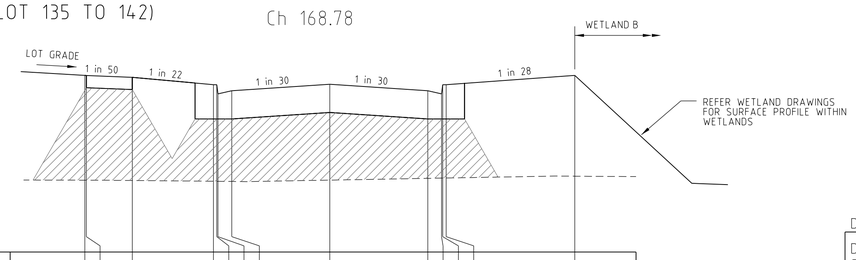
SHOAL CIRCUIT (LOT 135 TO 142) Ch 168.78



DATUM 34

DESIGN SURFACE LEVEL	36.607	36.490	36.489	36.459	36.339	36.339	36.189	36.239	36.345	36.239	36.189	36.339	36.339	36.490
EXISTING SURFACE LEVEL	35.176	35.174	35.174	35.173	35.170	35.170	35.170	35.170	35.166	35.163	35.162	35.162	35.162	35.164
OFFSET	-9.566	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	8.260

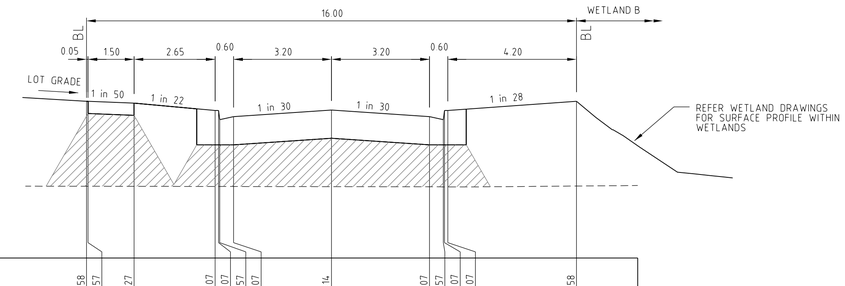
SHOAL CIRCUIT (LOT 135 TO 142) Ch 223.69



DATUM 34

DESIGN SURFACE LEVEL	36.882	36.881	36.851	36.731	36.731	36.581	36.631	36.738	36.631	36.581	36.731	36.731	36.882
EXISTING SURFACE LEVEL	35.171	35.171	35.166	35.154	35.153	35.153	35.151	35.173	35.201	35.205	35.206	35.207	35.237
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	8.000

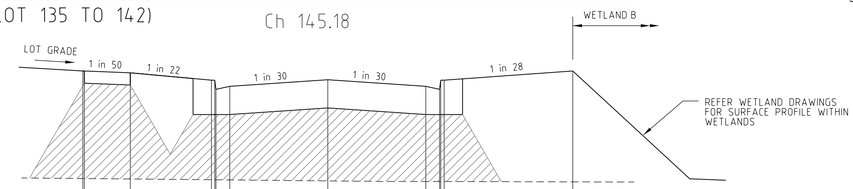
SHOAL CIRCUIT (LOT 135 TO 142) Ch 145.18



DATUM 34

DESIGN SURFACE LEVEL	36.558	36.557	36.527	36.407	36.407	36.257	36.307	36.414	36.307	36.257	36.407	36.407	36.558
EXISTING SURFACE LEVEL	35.170	35.170	35.169	35.167	35.167	35.167	35.167	35.164	35.161	35.161	35.161	35.161	35.174
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	8.000

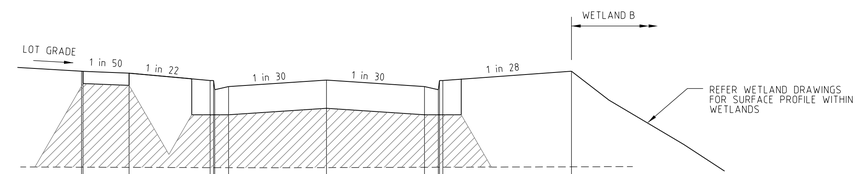
SHOAL CIRCUIT (LOT 135 TO 142) Ch 209.97



DATUM 34

DESIGN SURFACE LEVEL	36.948	36.947	36.917	36.797	36.797	36.647	36.697	36.804	36.697	36.647	36.797	36.797	36.948
EXISTING SURFACE LEVEL	35.192	35.191	35.184	35.172	35.171	35.171	35.169	35.153	35.143	35.142	35.142	35.142	35.137
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	8.000

SHOAL CIRCUIT (LOT 135 TO 142) Ch 131.97



DATUM 34

DESIGN SURFACE LEVEL	36.698	36.697	36.667	36.547	36.547	36.397	36.447	36.554	36.447	36.397	36.547	36.547	36.698
EXISTING SURFACE LEVEL	35.132	35.132	35.129	35.125	35.125	35.125	35.124	35.125	35.130	35.131	35.131	35.131	35.138
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	8.000

SHOAL CIRCUIT (LOT 135 TO 142) Ch 181.97

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	19/09/19
1	SHOAL CIRCUIT EASTERN FOOTPATH REMOVED	M.L	31/01/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale V 1:100, V 1:50, A1
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

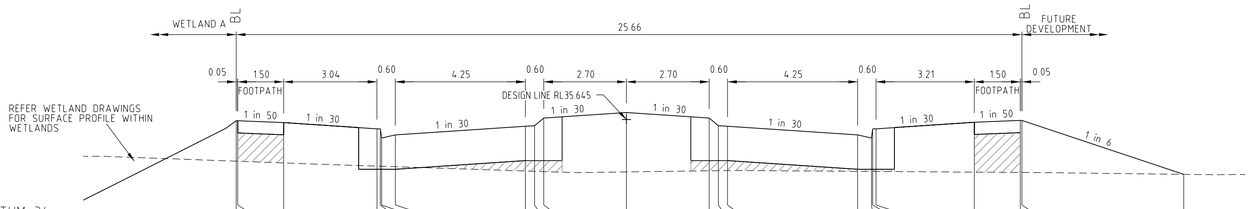
Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE
STAGE 1
CROSS SECTIONS - SHOAL CIRUCIT (LOTS 135 TO 142)

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303976R17** Rev **2**

STRUCTURAL FILL

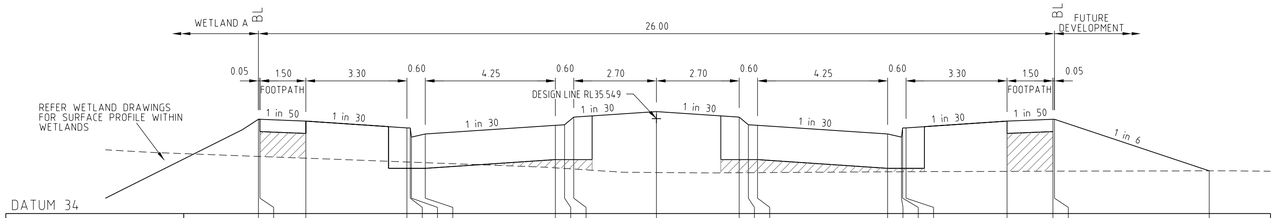


DATUM 34

DESIGN SURFACE LEVEL	35.626	35.625	35.595	35.493	35.493	35.343	35.393	35.535	35.544	35.669	35.759	35.669	35.544	35.535	35.393	35.343	35.493	35.493	35.600	35.630	35.631	34.750
EXISTING SURFACE LEVEL	34.965	34.964	34.936	34.884	34.883	34.882	34.875	34.805	34.800	34.795	34.789	34.808	34.810	34.812	34.799	34.798	34.797	34.797	34.786	34.781	34.781	34.750
OFFSET	-12.743	-12.693	-11.193	-8.146	-8.036	-7.996	-7.546	-3.300	-3.000	-2.700	0.000	2.700	3.000	3.300	7.550	8.000	8.040	8.150	11.362	12.862	12.912	18.200

BARRABOOL BOULEVARD

Ch 56.22

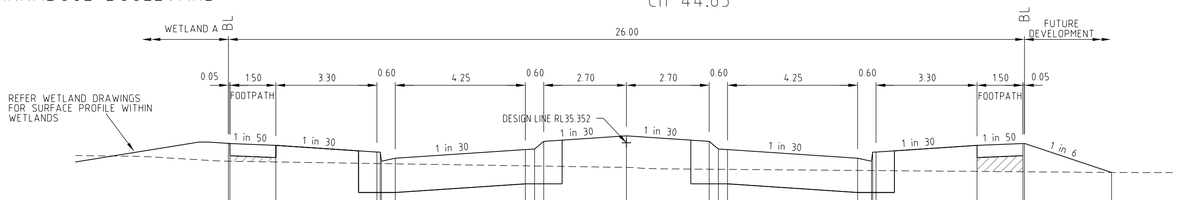


DATUM 34

DESIGN SURFACE LEVEL	35.539	35.538	35.508	35.398	35.398	35.248	35.298	35.439	35.448	35.573	35.663	35.573	35.448	35.439	35.298	35.248	35.398	35.398	35.508	35.538	35.539	34.697
EXISTING SURFACE LEVEL	34.932	34.931	34.903	34.841	34.839	34.838	34.830	34.745	34.735	34.726	34.669	34.666	34.666	34.667	34.680	34.682	34.682	34.682	34.688	34.691	34.691	34.697
OFFSET	-13.000	-12.950	-11.450	-8.150	-8.040	-8.000	-7.550	-3.300	-3.000	-2.700	0.000	2.700	3.000	3.300	7.550	8.000	8.040	8.150	11.450	12.950	13.000	18.051

BARRABOOL BOULEVARD

Ch 44.63

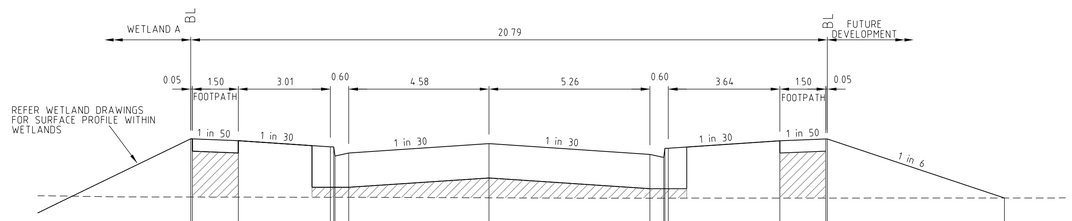


DATUM 34

DESIGN SURFACE LEVEL	35.341	35.340	35.310	35.200	35.200	35.050	35.100	35.242	35.251	35.376	35.466	35.376	35.251	35.242	35.100	35.050	35.200	35.200	35.310	35.340	35.341	34.867
EXISTING SURFACE LEVEL	35.051	35.051	35.039	35.014	35.013	35.012	35.009	34.976	34.974	34.971	34.950	34.921	34.919	34.918	34.901	34.899	34.899	34.899	34.895	34.879	34.879	34.867
OFFSET	-13.000	-12.950	-11.450	-8.150	-8.040	-8.000	-7.550	-3.300	-3.000	-2.700	0.000	2.700	3.000	3.300	7.550	8.000	8.040	8.150	11.450	12.950	13.000	15.843

BARRABOOL BOULEVARD

Ch 19.17

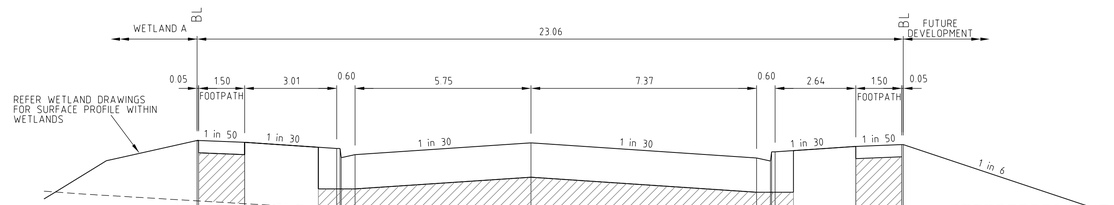


DATUM 34

DESIGN SURFACE LEVEL	35.968	35.967	35.937	35.837	35.837	35.687	35.737	35.889	35.774	35.664	35.814	35.814	35.936	35.966	35.967	35.003
EXISTING SURFACE LEVEL	35.018	35.018	35.016	35.014	35.013	35.013	35.013	35.005	34.999	35.000	35.000	35.000	35.001	35.001	35.001	35.003
OFFSET	-9.739	-9.689	-8.189	-5.181	-5.071	-5.031	-4.581	0.000	5.256	5.706	5.746	5.856	9.500	11.000	11.050	16.832

BARRABOOL BOULEVARD

Ch 106.40



DATUM 34

DESIGN SURFACE LEVEL	35.831	35.830	35.800	35.699	35.699	35.549	35.599	35.791	35.545	35.495	35.645	35.645	35.733	35.763	35.764	34.753
EXISTING SURFACE LEVEL	34.845	34.843	34.799	34.709	34.705	34.704	34.693	34.688	34.664	34.666	34.666	34.667	34.679	34.707	34.708	34.753
OFFSET	-10.904	-10.854	-9.354	-6.347	-6.237	-6.197	-5.747	0.000	7.369	7.819	7.859	7.969	10.607	12.107	12.157	18.226

BARRABOOL BOULEVARD

Ch 84.20

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	19/09/19
1	BARRABOOL BOULEVARD CROSS SECTIONS UPDATED	M.L	20/02/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale V 1:100, V 1:50, A1
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

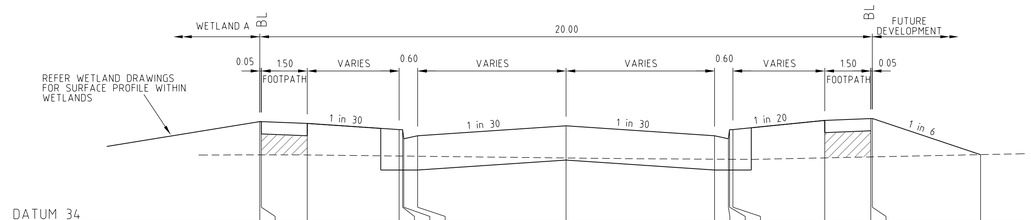
Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE
STAGE 1
CROSS SECTIONS - BARRABOOL BOULEVARD

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303976R18** Rev **2**

STRUCTURAL FILL

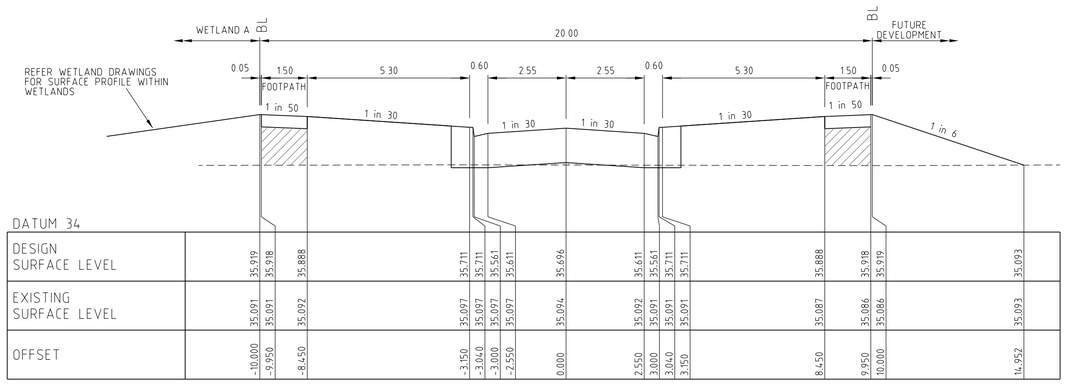


DATUM 34

DESIGN SURFACE LEVEL	35.649	35.648	35.618	35.518	35.518	35.518	35.368	35.418	35.579	35.418	35.368	35.518	35.518	35.668	35.698	35.699	35.109
EXISTING SURFACE LEVEL	35.104	35.104	35.103	35.086	35.085	35.085	35.082	35.034	35.054	35.034	35.033	35.033	35.033	35.056	35.071	35.072	35.109
OFFSET	-10.000	-9.950	-8.450	-5.450	-5.340	-5.300	-4.850	0.000	0.000	4.850	5.300	5.340	5.450	8.450	9.950	10.000	13.538

BARRABOOL BOULEVARD

Ch 168.41

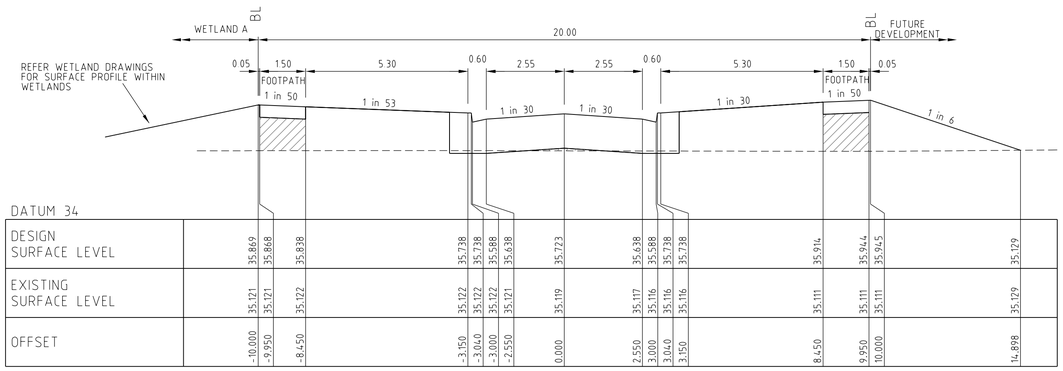


DATUM 34

DESIGN SURFACE LEVEL	35.919	35.918	35.888	35.711	35.711	35.561	35.611	35.696	35.611	35.561	35.711	35.711	35.888	35.918	35.919	35.093
EXISTING SURFACE LEVEL	35.091	35.091	35.092	35.097	35.097	35.097	35.097	35.094	35.092	35.091	35.091	35.091	35.087	35.086	35.086	35.093
OFFSET	-10.000	-9.950	-8.450	-3.150	-3.040	-3.000	-2.550	0.000	2.550	3.000	3.040	3.150	8.450	9.950	10.000	14.952

BARRABOOL BOULEVARD

Ch 145.09

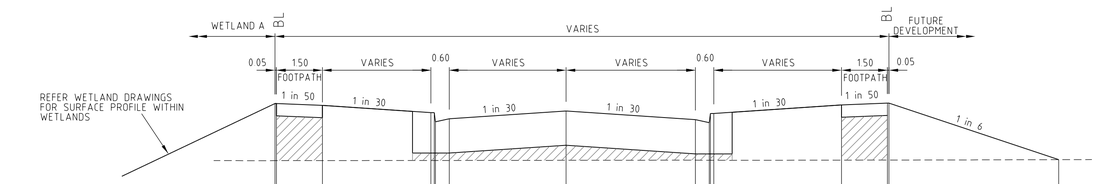


DATUM 34

DESIGN SURFACE LEVEL	35.869	35.868	35.838	35.738	35.738	35.588	35.638	35.723	35.638	35.588	35.738	35.738	35.914	35.944	35.945	35.129
EXISTING SURFACE LEVEL	35.121	35.121	35.122	35.122	35.122	35.122	35.121	35.119	35.117	35.116	35.116	35.116	35.111	35.111	35.111	35.129
OFFSET	-10.000	-9.950	-8.450	-3.150	-3.040	-3.000	-2.550	0.000	2.550	3.000	3.040	3.150	8.450	9.950	10.000	14.898

BARRABOOL BOULEVARD

Ch 197.09

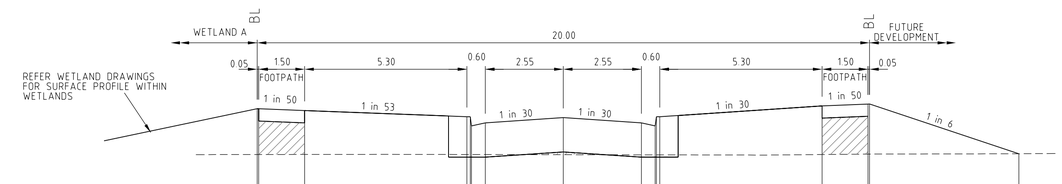


DATUM 34

DESIGN SURFACE LEVEL	35.943	35.942	35.912	35.794	35.794	35.644	35.694	35.821	35.680	35.630	35.780	35.780	35.919	35.949	35.950	35.027
EXISTING SURFACE LEVEL	35.010	35.010	35.011	35.013	35.013	35.013	35.014	35.016	35.018	35.017	35.017	35.016	35.019	35.020	35.020	35.027
OFFSET	-9.507	-9.457	-7.957	-4.415	-4.305	-4.265	-3.815	0.000	4.226	4.676	4.716	4.826	8.996	10.496	10.546	16.088

BARRABOOL BOULEVARD

Ch 120.00



DATUM 34

DESIGN SURFACE LEVEL	35.859	35.858	35.828	35.728	35.728	35.578	35.628	35.713	35.628	35.578	35.728	35.728	35.904	35.934	35.935	35.123
EXISTING SURFACE LEVEL	35.110	35.110	35.111	35.111	35.110	35.110	35.110	35.108	35.105	35.105	35.105	35.105	35.110	35.117	35.117	35.123
OFFSET	-10.000	-9.950	-8.450	-3.150	-3.040	-3.000	-2.550	0.000	2.550	3.000	3.040	3.150	8.450	9.950	10.000	14.875

BARRABOOL BOULEVARD

Ch 195.14

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	19/09/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale V 1:100, V 1:50,A1
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

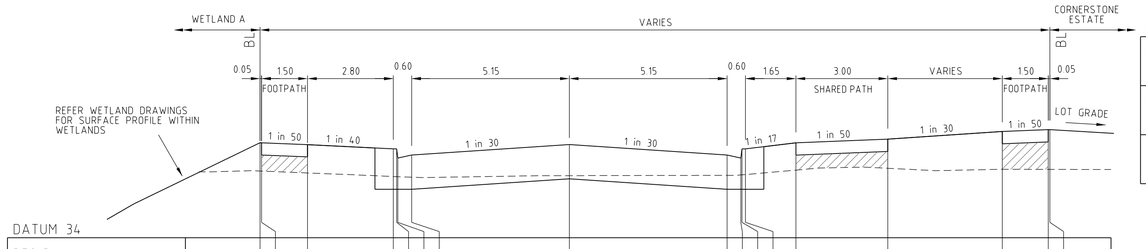
Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE
STAGE 1
CROSS SECTIONS - BARRABOOL BOULEVARD

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303976R19** Rev **1**

STRUCTURAL FILL

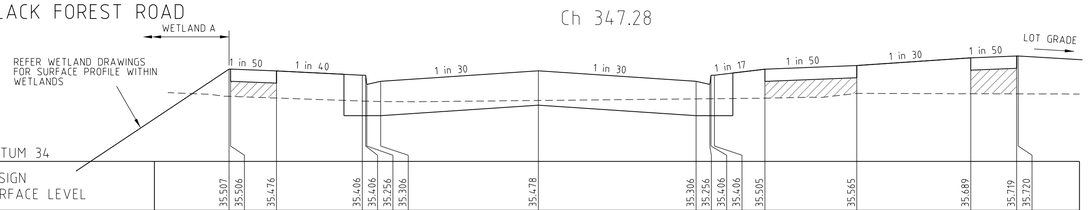


DATUM 34

DESIGN SURFACE LEVEL	35.551	35.550	35.520	35.450	35.450	35.300	35.350	35.521	35.350	35.300	35.450	35.450	35.549	35.609	35.733	35.763	35.764
EXISTING SURFACE LEVEL	35.088	35.087	35.057	34.999	34.996	34.996	34.988	35.013	35.018	35.024	35.026	35.031	35.103	35.133	35.117	35.115	35.115
OFFSET	-10.100	-10.050	-8.550	-5.750	-5.640	-5.600	-5.150	0.000	5.150	5.600	5.640	5.750	7.400	10.400	14.140	15.640	15.690

BLACK FOREST ROAD

Ch 347.28

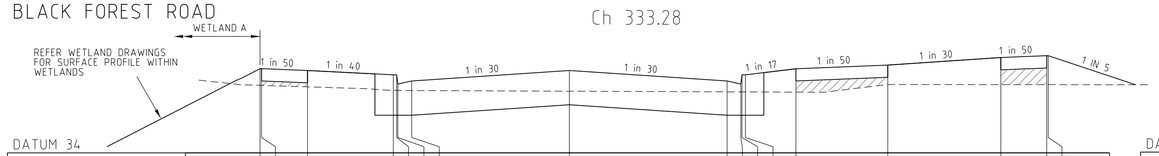


DATUM 34

DESIGN SURFACE LEVEL	35.507	35.506	35.476	35.406	35.406	35.256	35.306	35.478	35.306	35.256	35.406	35.406	35.505	35.565	35.689	35.719	35.720
EXISTING SURFACE LEVEL	35.061	35.060	35.034	34.985	34.983	34.982	34.978	34.994	35.020	35.022	35.023	35.023	35.032	35.110	35.104	35.102	35.102
OFFSET	-10.100	-10.050	-8.550	-5.750	-5.640	-5.600	-5.150	0.000	5.150	5.600	5.640	5.750	7.400	10.400	14.122	15.622	15.672

BLACK FOREST ROAD

Ch 333.28

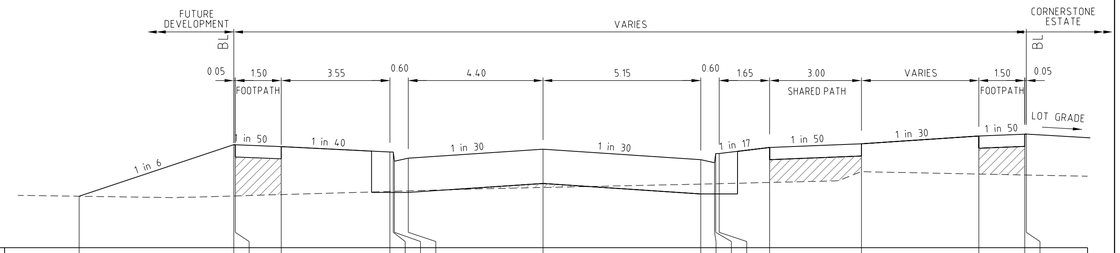


DATUM 34

DESIGN SURFACE LEVEL	35.374	35.373	35.343	35.273	35.273	35.123	35.173	35.345	35.173	35.123	35.273	35.273	35.372	35.432	35.555	35.585	35.586
EXISTING SURFACE LEVEL	35.102	35.101	35.078	35.022	35.021	35.020	35.017	35.006	34.996	34.995	34.995	34.995	34.991	35.115	35.114	35.113	35.113
OFFSET	-10.100	-10.050	-8.550	-5.750	-5.640	-5.600	-5.150	0.000	5.150	5.600	5.640	5.750	7.400	10.400	14.088	15.588	15.638

BLACK FOREST ROAD

Ch 306.74

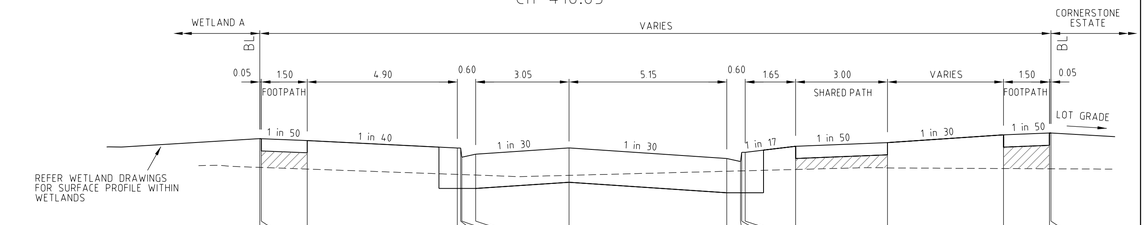


DATUM 34

DESIGN SURFACE LEVEL	34.839	35.681	35.680	35.650	35.561	35.561	35.411	35.461	35.608	35.436	35.386	35.536	35.635	35.695	35.823	35.853	35.854
EXISTING SURFACE LEVEL	34.839	34.844	34.844	34.866	34.918	34.919	34.920	34.926	34.982	35.037	35.042	35.043	35.044	35.064	35.240	35.201	35.186	35.186
OFFSET	-15.149	-10.100	-10.050	-8.550	-5.002	-4.892	-4.852	-4.402	0.000	5.150	5.600	5.640	5.750	7.400	10.400	14.230	15.730	15.780

BLACK FOREST ROAD

Ch 416.83

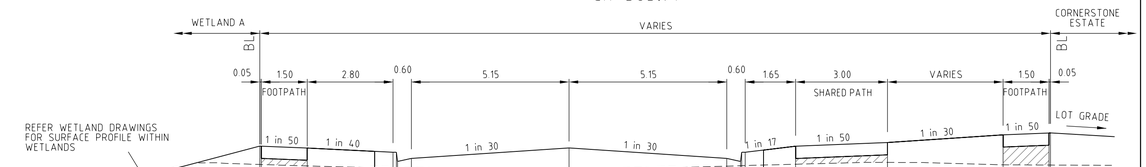


DATUM 34

DESIGN SURFACE LEVEL	35.595	35.594	35.564	35.442	35.442	35.292	35.342	35.443	35.272	35.222	35.372	35.372	35.471	35.531	35.657	35.687	35.688
EXISTING SURFACE LEVEL	35.126	35.125	35.099	35.012	35.010	35.009	35.001	34.996	35.063	35.069	35.069	35.071	35.092	35.117	35.107	35.103	35.103
OFFSET	-10.100	-10.050	-8.550	-3.650	-3.540	-3.500	-3.050	0.000	5.150	5.600	5.640	5.750	7.400	10.400	14.187	15.687	15.737

BLACK FOREST ROAD

Ch 383.97



DATUM 34

DESIGN SURFACE LEVEL	35.420	35.419	35.389	35.319	35.319	35.169	35.219	35.391	35.219	35.169	35.319	35.319	35.418	35.478	35.604	35.634	35.635
EXISTING SURFACE LEVEL	35.120	35.119	35.097	35.057	35.055	35.055	35.048	35.013	35.093	35.100	35.101	35.102	35.124	35.153	35.115	35.111	35.111
OFFSET	-10.100	-10.050	-8.550	-5.750	-5.640	-5.600	-5.150	0.000	5.150	5.600	5.640	5.750	7.400	10.400	14.174	15.674	15.724

BLACK FOREST ROAD

Ch 373.39

Rev	Amendments	Approved	Date
4	AS CONSTRUCTED	M.L	19/09/19
3	CROSS SECTIONS Ch306.74 TO Ch416.83 UPDATED	M.L	05/04/19
2	LIMIT OF WORKS UPDATED TO Ch306.74	M.L	31/01/19
1	CORNERSTONE LOT GRADE ADDED	M.L	30/10/18
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale V 1:100, V 1:50,A1
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE
STAGE 1
CROSS SECTIONS - BLACKFOREST ROAD

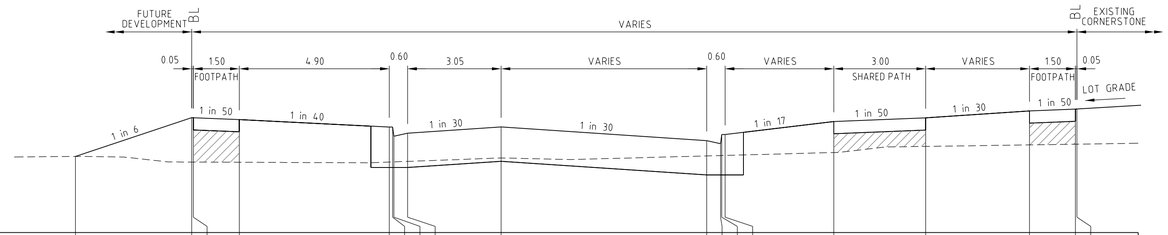
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED

Drg No **303976R20**

Rev **4**

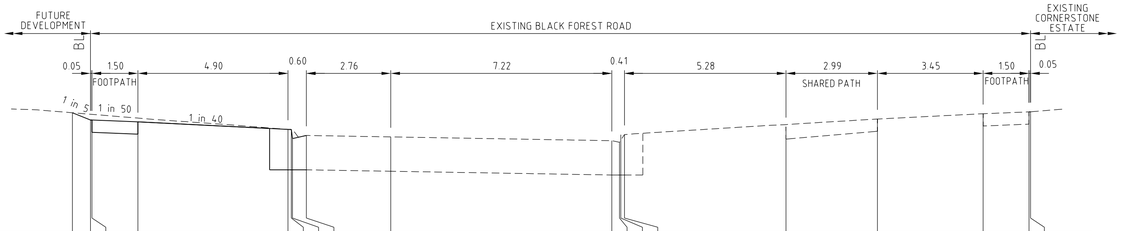
STRUCTURAL FILL



DATUM 34

| | | |

STRUCTURAL FILL



DATUM 33

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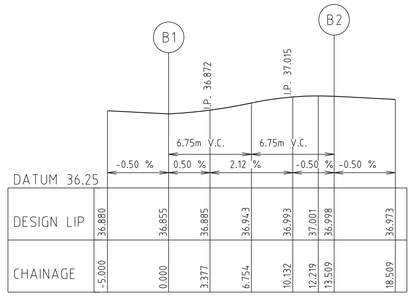
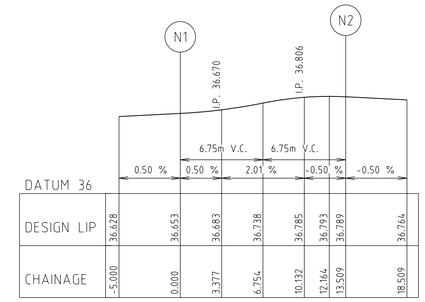


LIP LINE B
Hor250
Ver25

ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	288175.564	5802937.364	36.855
1/4	288175.822	5802934.018	36.885
1/2	288177.340	5802931.026	36.943
3/4	288179.888	5802928.842	36.993
B2	288183.077	5802927.800	36.998

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B1-B2	8.600	13.509	12.162	2.519	-0.655

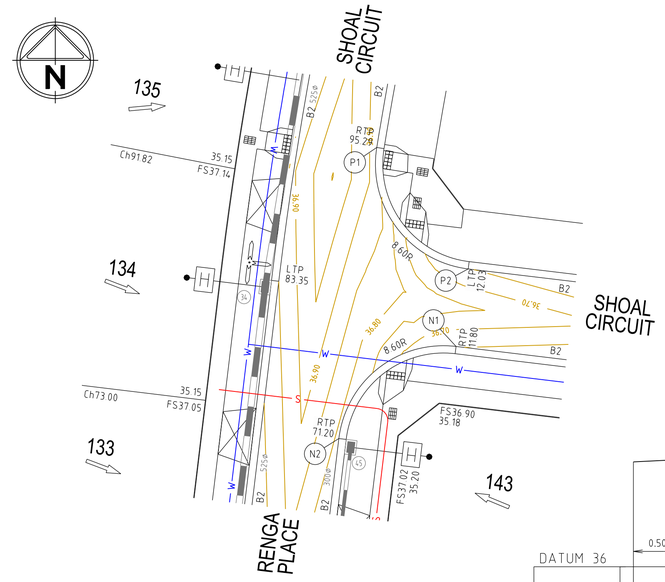


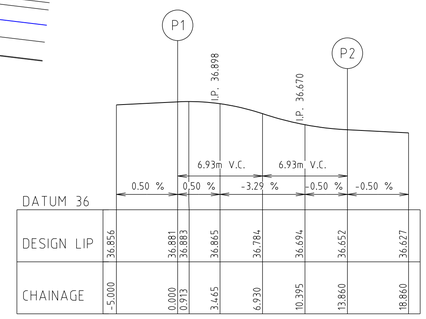
LIP LINE N
Hor250
Ver25

ALIGNMENT N

POINT NO	EASTING	NORTHING	RL
N1	288276.188	5802993.767	36.653
1/4	288272.842	5802993.510	36.683
1/2	288269.850	5802991.991	36.738
3/4	288267.666	5802989.444	36.785
N2	288266.624	5802986.254	36.789

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
N1-N2	8.600	13.509	12.162	2.519	-0.655



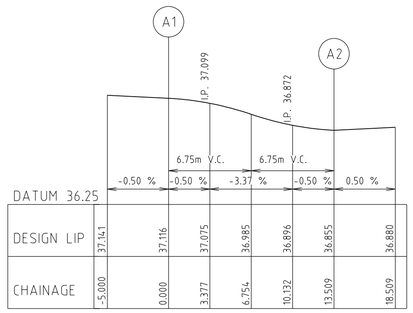


LIP LINE P
Hor250
Ver25

ALIGNMENT P

POINT NO	EASTING	NORTHING	RL
P1	288269.719	5803010.006	36.881
1/4	288269.860	5803006.567	36.865
1/2	288271.339	5803003.459	36.784
3/4	288273.917	5803001.179	36.694
P2	288277.183	5803000.094	36.652

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
P1-P2	8.600	13.860	12.408	2.644	-0.689

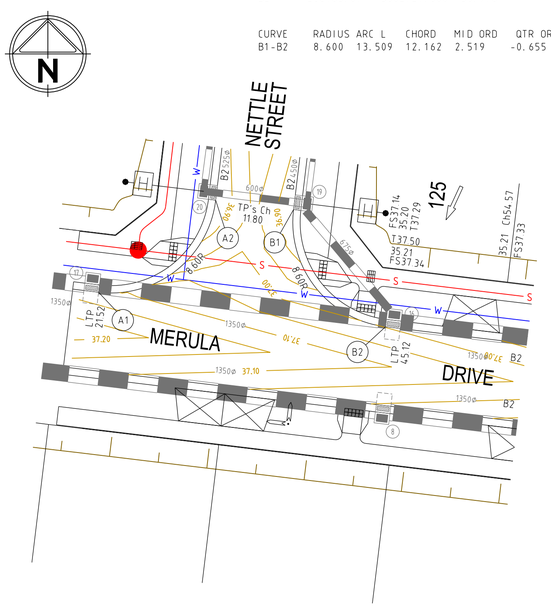


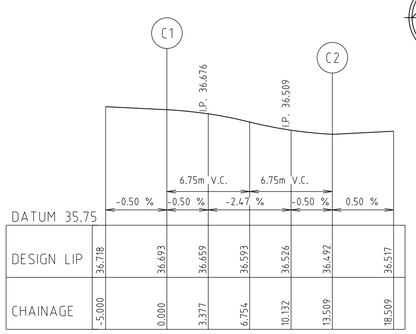
LIP LINE A
Hor250
Ver25

ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	288159.646	5802930.614	37.116
1/4	288162.991	5802930.871	37.075
1/2	288165.984	5802932.390	36.985
3/4	288168.167	5802934.937	36.896
A2	288169.210	5802938.127	36.855

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	8.600	13.509	12.162	2.519	-0.655



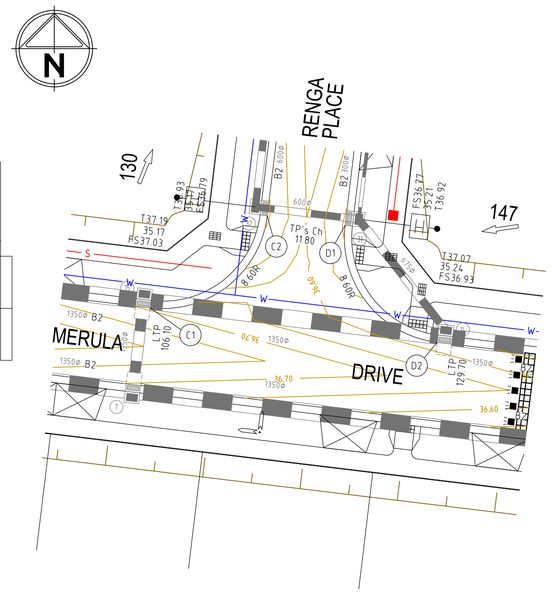


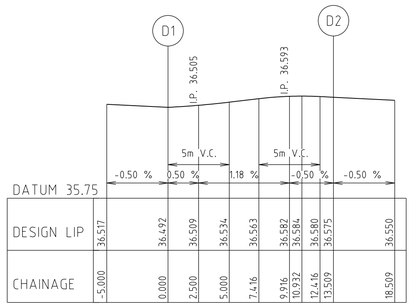
LIP LINE C
Hor250
Ver25

ALIGNMENT C

POINT NO	EASTING	NORTHING	RL
C1	288243.622	5802920.528	36.693
1/4	288246.968	5802920.785	36.659
1/2	288249.960	5802922.304	36.593
3/4	288252.144	5802924.852	36.526
C2	288253.186	5802928.041	36.492

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C1-C2	8.600	13.509	12.162	2.519	-0.655



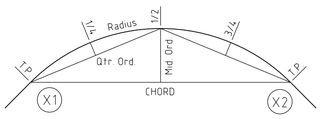


LIP LINE D
Hor250
Ver25

ALIGNMENT D

POINT NO	EASTING	NORTHING	RL
D1	288259.540	5802927.278	36.492
1/4	288259.798	5802923.932	36.517
1/2	288261.316	5802920.940	36.555
3/4	288263.864	5802918.756	36.583
D2	288267.054	5802917.714	36.575

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D1-D2	8.600	13.509	12.162	2.519	-0.655



KERB RETURN SETOUT DETAIL

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	19/09/19
1	MERULA DRIVE DRIVEWAY UPDATED	M.L	24/04/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale H 1:250, V 1:25, A1
Horizontal 0 2.5 5 7.5 10 12.5
Vertical 0 0.25 0.5 0.75 1.0 1.25

dlcs AS/NZS ISO 9001 certified AS/NZS 14001 certified AS/NZS ISO 14001 certified

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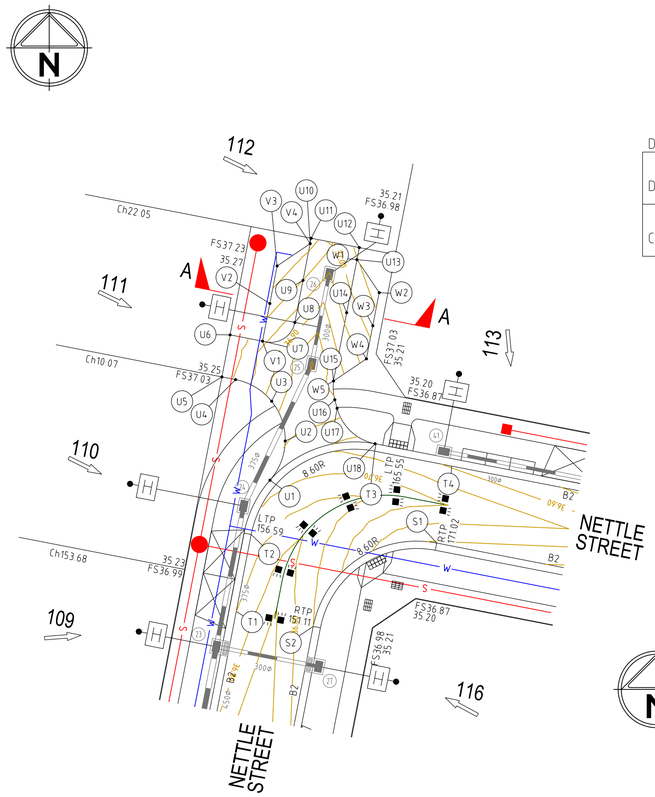
FRASERS PROPERTY

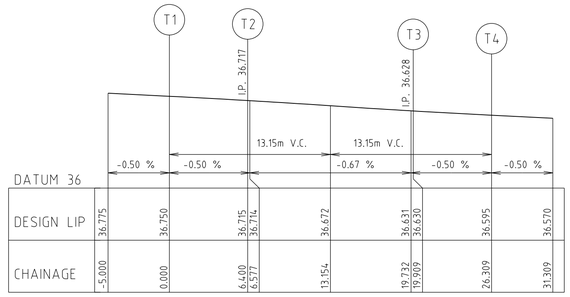
Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE
STAGE 1
INTERSECTION DETAILS
SHEET 1 OF 7

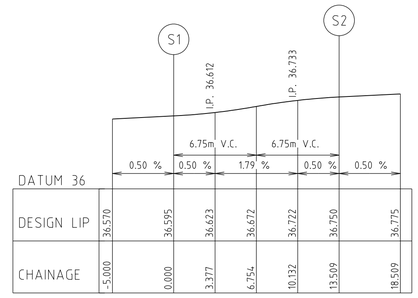
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303976R23**
Rev **2**





LIP LINE T
Hor250
Ver25



LIP LINE S
Hor250
Ver25

ALIGNMENT T

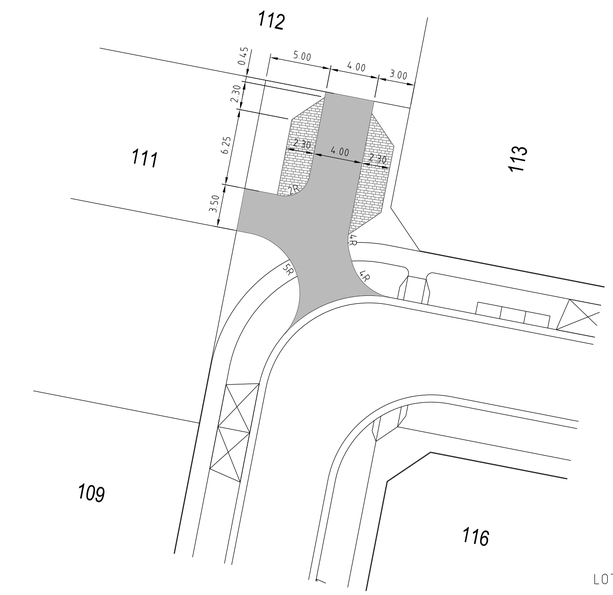
POINT NO	EASTING	NORTHING	RL
T1	288194.247	5803075.368	36.750
T2	288195.467	5803081.651	36.715
1/4	288196.736	5803084.757	36.694
1/2	288199.098	5803087.141	36.672
3/4	288202.192	5803088.440	36.650
T3	288205.547	5803088.455	36.630
T4	288211.830	5803087.236	36.595

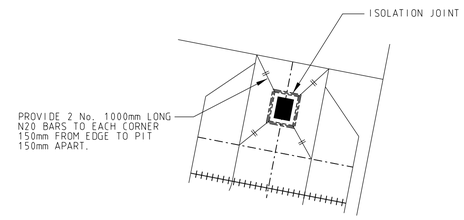
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
T2-T3	8.600	13.509	12.162	2.519	0.655

ALIGNMENT S

POINT NO	EASTING	NORTHING	RL
S1	288210.611	5803080.953	36.595
1/4	288207.256	5803080.938	36.623
1/2	288204.161	5803079.639	36.672
3/4	288201.800	5803077.255	36.722
S2	288200.530	5803074.149	36.750

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
S1-S2	8.600	13.509	12.162	2.519	-0.655





TYPICAL JOINT ARRANGEMENT AROUND PITS

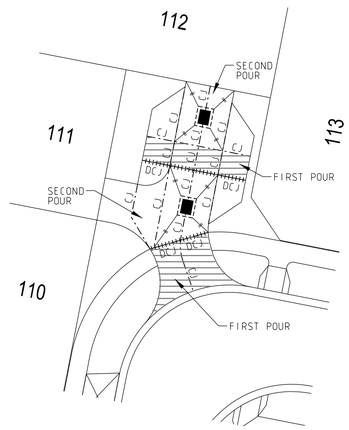
NOT TO SCALE

NOTE
ALL LONGITUDINAL JOINTS (LJ) AND CONSTRUCTION JOINTS (DCJ) TO BE DOWELLED WITH 24 DIA DOWELLS, GRADE 250R STEEL BARS, 350MM LONG @ 300MM CENTRES AND TO HAVE A BOND BREAKING COMPOUND ON ONE END.

TRANSVERSE CONTRACTION JOINTS (CJ) TO BE FORMED OR SAWCUT. DEPTH TO BE D/4 AND FILLED WITH AN APPROVED SEALANT MATERIAL (D = CONCRETE PAVEMENT THICKNESS)

DCJS TO BE DONE WHERE SPECIFIED & AT END OF DAYS POUR

CONCRETE TO BE CURED IMMEDIATELY BY COVERING WITH PLASTIC SHEETING/WET HESHIAN CONTINUOUSLY FOR AT LEAST 3 DAYS OR ANY OTHER APPROVED METHOD.



CONCRETE JOINTING PLAN

ALIGNMENT U (EXTENDED DRIVEWAY)

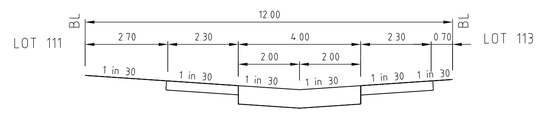
POINT	EASTING	NORTHING	LEVEL
U1	288196.999	5803086.086	36.787
U2	288198.241	5803089.281	36.806
U3	288197.133	5803092.526	36.881
U4	288194.195	5803094.294	36.992
U5	288193.073	5803094.512	37.033
U6	288193.740	5803097.948	37.051
U7	288196.390	5803097.433	36.961
U8	288199.029	5803098.958	36.925
U9	288199.696	5803102.394	37.000
U10	288200.277	5803105.388	37.065
U11	288200.362	5803105.830	37.074
U12	288204.289	5803105.069	37.067
U13	288204.099	5803104.087	37.048
U14	288203.258	5803099.757	36.967
U15	288202.185	5803094.179	36.864
U16	288202.290	5803092.651	36.841
U17	288202.476	5803091.955	36.821
U18	288205.578	5803089.061	36.731

ALIGNMENT W (CARPARKING)

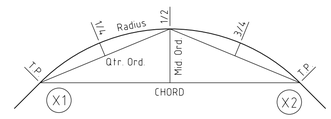
POINT	EASTING	NORTHING	LEVEL
W1	288204.099	5803104.086	37.046
W2	288205.918	5803101.390	37.077
W3	288205.394	5803098.691	37.021
W4	288204.870	5803095.991	36.970
W5	288202.187	5803094.180	36.869

ALIGNMENT V (CARPARKING)

POINT	EASTING	NORTHING	LEVEL
V1	288196.390	5803097.434	36.961
V2	288196.985	5803100.501	37.024
V3	288197.581	5803103.569	37.088
V4	288200.275	5803105.388	37.058



SECTION A - A



KERB RETURN SETOUT DETAIL

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	19/09/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale H 1:250, V 1:25, A1
Horizontal 0 2.5 5 7.5 10 12.5
Vertical 0 0.25 0.5 0.75 1.0 1.25

dlcs AS/NZS ISO 9001 certified AS/NZS 4801 certified AS/NZS ISO 14001 certified

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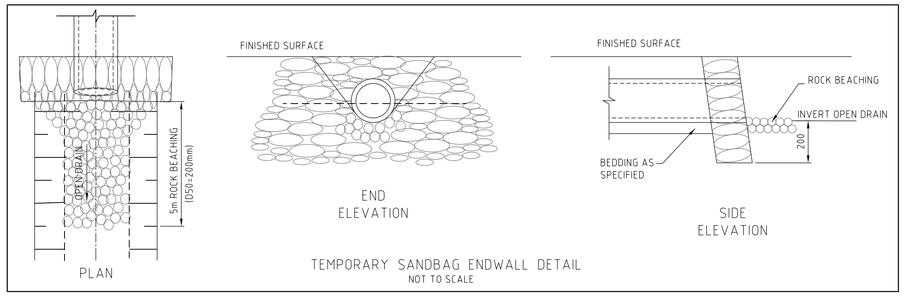
FRASERS PROPERTY

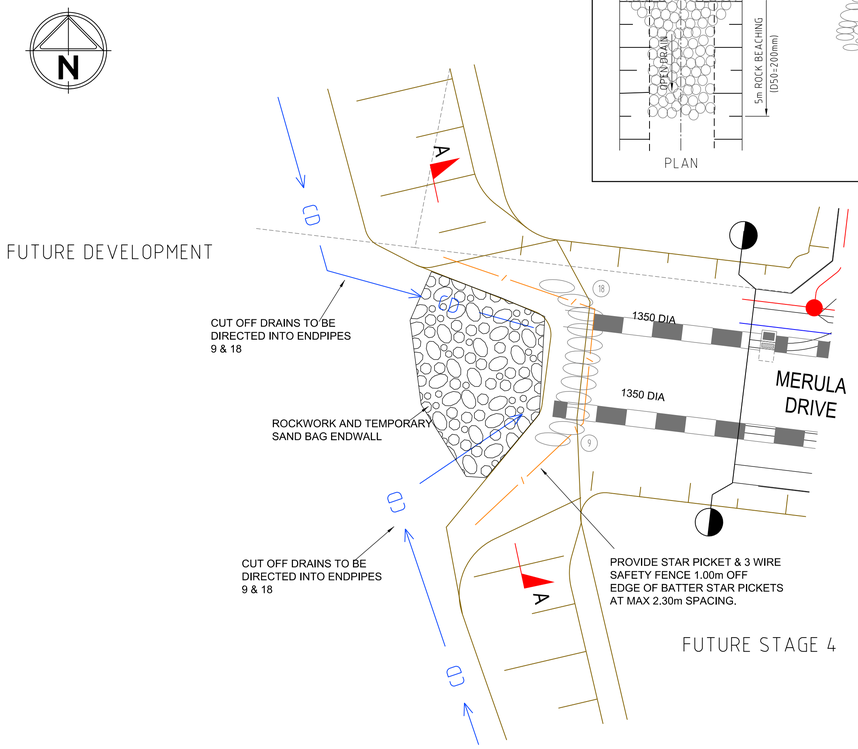
Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE
STAGE 1
INTERSECTION DETAILS
SHEET 2 OF 7
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

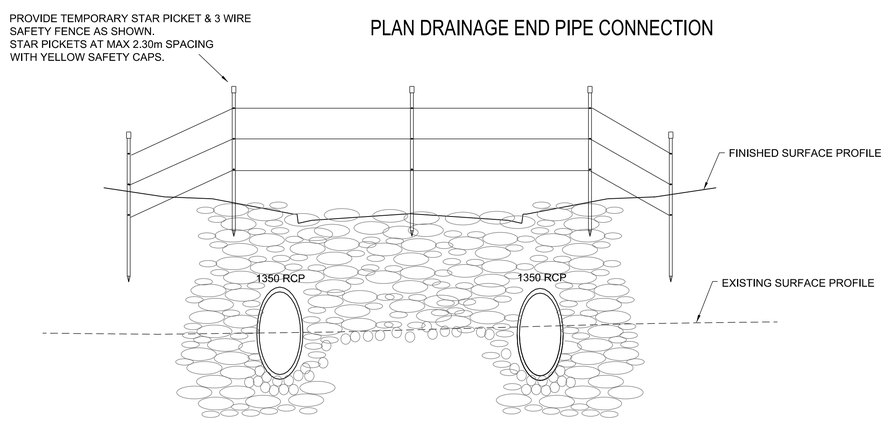
AS CONSTRUCTED
Drg No **303976R24**
Rev **1**



TEMPORARY SANDBAG ENDWALL DETAIL
NOT TO SCALE



PLAN DRAINAGE END PIPE CONNECTION



END ELEVATION A-A
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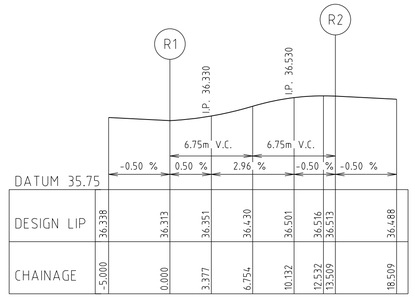
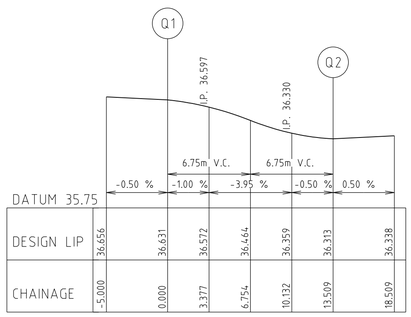


LIP LINE R
Hor250
Ver25

ALIGNMENT R

POINT NO	EASTING	NORTHING	RL
R1	288267.197	5803076.492	36.313
1/4	288270.553	5803076.508	36.351
1/2	288273.647	5803077.806	36.430
3/4	288276.009	5803080.190	36.501
R2	288277.278	5803083.296	36.513

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
R1-R2	8.600	13.509	12.162	2.519	-0.655

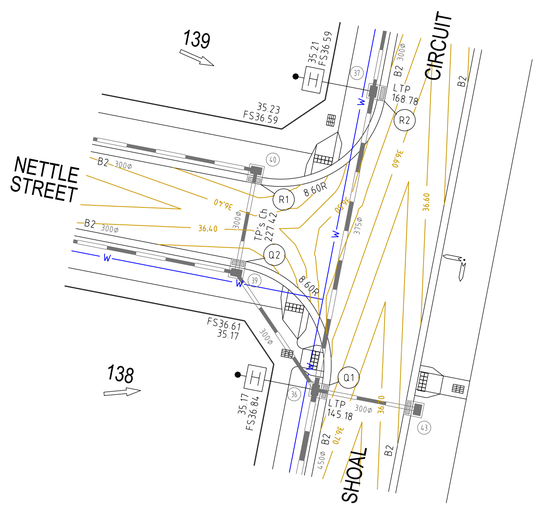


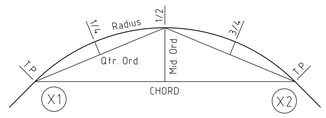
LIP LINE Q
Hor250
Ver25

ALIGNMENT Q

POINT NO	EASTING	NORTHING	RL
Q1	288272.782	5803060.128	36.631
1/4	288272.767	5803063.484	36.572
1/2	288271.468	5803066.578	36.464
3/4	288269.084	5803068.940	36.359
Q2	288265.978	5803070.209	36.313

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
Q1-Q2	8.600	13.509	12.162	2.519	-0.655





KERB RETURN SETOUT DETAIL

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	19/09/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale H 1:250, V 1:25, A1
Horizontal 0 2.5 5 7.5 10 12.5
Vertical 0 0.25 0.5 0.75 1.0 1.25

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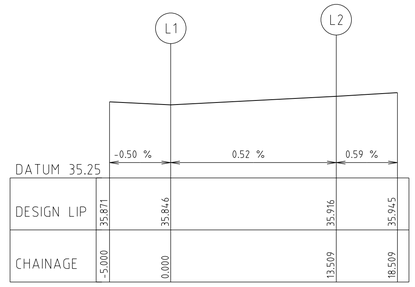
FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE STAGE 1
INTERSECTION DETAILS SHEET 3 OF 7
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303976R25**
Rev **1**



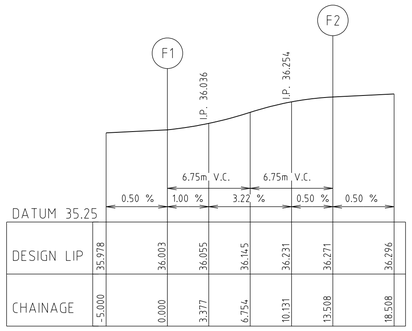
DATUM 35.25				
DESIGN LIP	35.871	35.846	35.916	35.945
CHAINAGE	-5.000	0.000	13.509	18.509

LIP LINE L
Hor250
Ver25

ALIGNMENT L

POINT NO	EASTING	NORTHING	RL
L1	288449.907	5802964.241	35.846
1/4	288449.649	5802967.587	35.864
1/2	288448.131	5802970.579	35.881
3/4	288445.583	5802972.763	35.899
L2	288442.393	5802973.805	35.916

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
L1-L2	8.600	13.509	12.162	2.519	-0.655



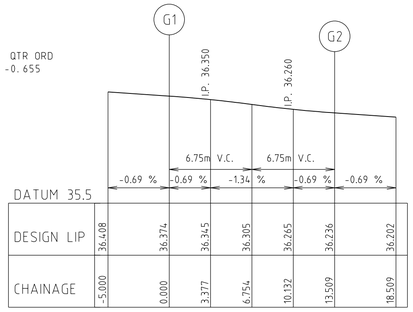
DATUM 35.25							
DESIGN LIP	35.978	36.003	36.055	36.145	36.231	36.271	36.296
CHAINAGE	-5.000	0.000	3.377	6.754	10.131	13.508	18.508

LIP LINE F
Hor250
Ver25

ALIGNMENT F

POINT NO	EASTING	NORTHING	RL
F1	288379.822	5802897.724	36.003
1/4	288376.476	5802897.466	36.055
1/2	288373.484	5802895.948	36.145
3/4	288371.300	5802893.401	36.231
F2	288370.257	5802890.211	36.271

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
F1-F2	8.600	13.508	12.162	2.519	-0.655



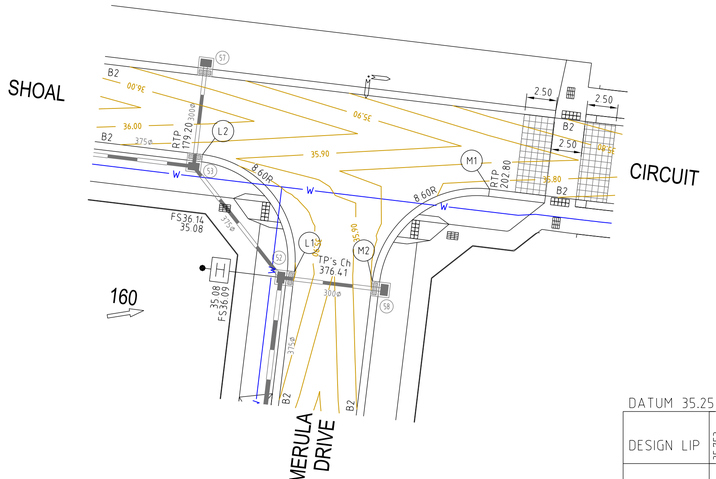
DATUM 35.5							
DESIGN LIP	36.408	36.374	36.345	36.305	36.265	36.236	36.202
CHAINAGE	-5.000	0.000	3.377	6.754	10.132	13.509	18.509

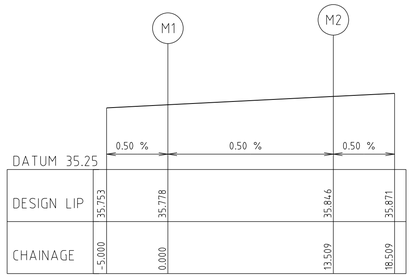
LIP LINE G
Hor250
Ver25

ALIGNMENT G

POINT NO	EASTING	NORTHING	RL
G1	288433.259	5802897.752	36.374
1/4	288436.605	5802898.009	36.345
1/2	288439.597	5802899.528	36.305
3/4	288441.781	5802902.075	36.265
G2	288442.823	5802905.265	36.236

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
G1-G2	8.600	13.509	12.162	2.519	-0.655





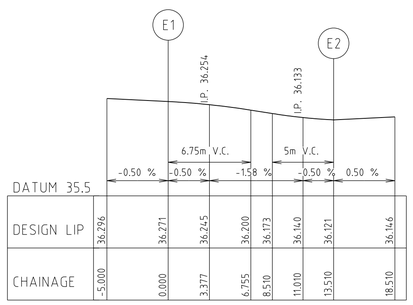
DATUM 35.25				
DESIGN LIP	35.753	35.778	35.846	35.871
CHAINAGE	-5.000	0.000	13.509	18.509

LIP LINE M
Hor250
Ver25

ALIGNMENT M

POINT NO	EASTING	NORTHING	RL
M1	288465.825	5802970.991	35.778
1/4	288462.479	5802970.734	35.795
1/2	288459.487	5802969.215	35.812
3/4	288457.303	5802966.668	35.829
M2	288456.261	5802963.478	35.846

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
M1-M2	8.600	13.509	12.162	2.519	-0.655



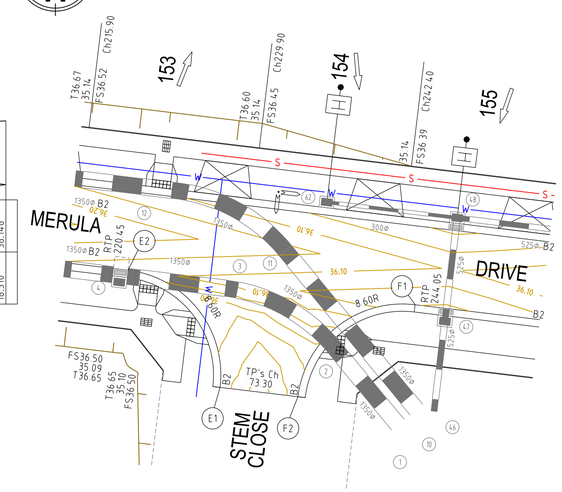
DATUM 35.5								
DESIGN LIP	36.296	36.271	36.245	36.200	36.173	36.140	36.121	36.146
CHAINAGE	-5.000	0.000	3.377	6.755	8.510	11.010	13.510	18.510

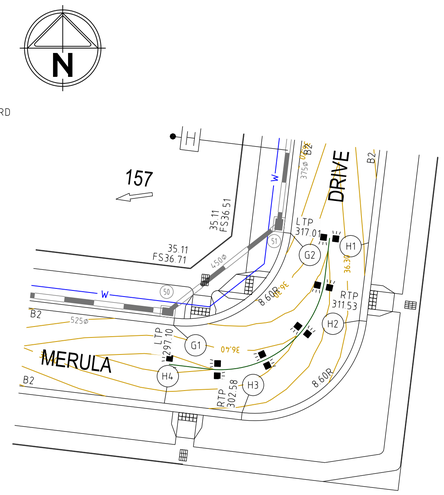
LIP LINE E
Hor250
Ver25

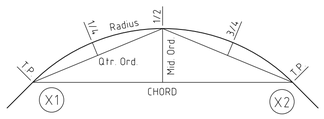
ALIGNMENT E

POINT NO	EASTING	NORTHING	RL
E1	288363.903	5802890.973	36.271
1/4	288363.646	5802894.319	36.245
1/2	288362.127	5802897.312	36.200
3/4	288359.580	5802899.496	36.150
E2	288356.390	5802900.538	36.121

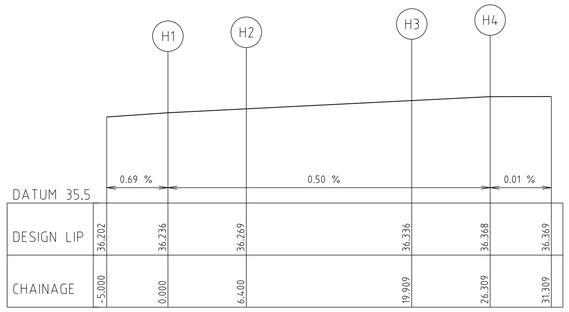
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
E1-E2	8.600	13.510	12.163	2.519	-0.655







KERB RETURN SETOUT DETAIL



DATUM 35.5						
DESIGN LIP	36.202	36.236	36.269	36.336	36.368	36.369
CHAINAGE	-5.000	0.000	6.400	19.909	26.309	31.309

LIP LINE H
Hor250
Ver25

ALIGNMENT H

POINT NO	EASTING	NORTHING	RL
H1	288449.178	5802904.502	36.236
H2	288448.414	5802898.147	36.269
1/4	288447.372	5802894.958	36.285
1/2	288445.188	5802892.410	36.302
3/4	288442.196	5802890.892	36.319
H3	288438.850	5802890.634	36.336
H4	288432.496	5802891.398	36.368

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
H2-H3	8.600	13.509	12.162	2.519	0.655

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	19/09/19
1	MERULA DRIVE FOOTPATH ADDED. SHOAL CIRCUIT BRIDGE WEST CROSSING WIDEN TO 2.5m	M.L	07/03/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale H 1:250, V 1:25, A1
Horizontal 0 2.5 5 7.5 10 12.5
Vertical 0 0.25 0.5 0.75 1.0 1.25

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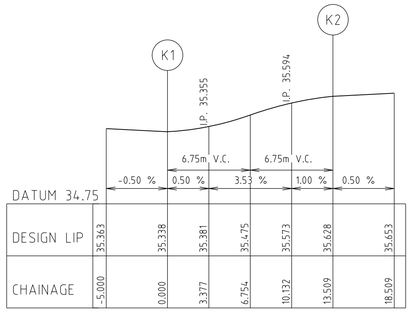
FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE STAGE 1
INTERSECTION DETAILS SHEET 4 OF 7
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303976R26**
Rev **2**

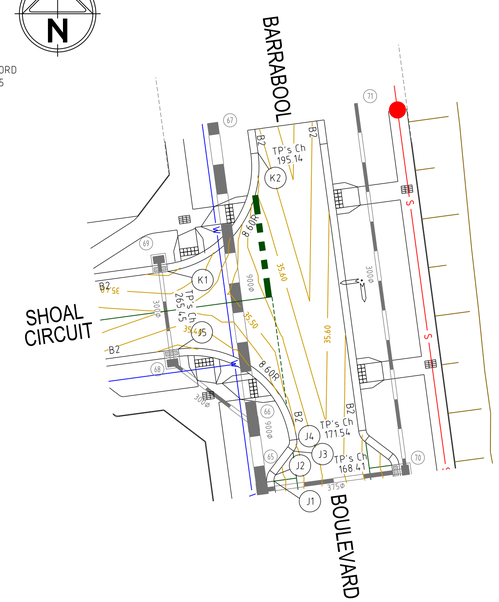


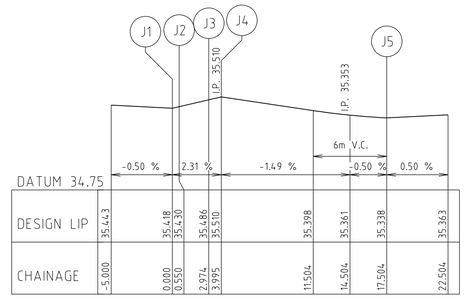
LIP LINE K
Hor250
Ver25

ALIGNMENT K

POINT NO	EASTING	NORTHING	RL
K1	288528.093	5802979.503	35.338
1/4	288531.266	5802980.593	35.381
1/2	288533.782	5802982.814	35.475
3/4	288535.255	5802985.829	35.573
K2	288535.463	5802989.178	35.628

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
K1-K2	8.600	13.509	12.162	2.519	-0.655



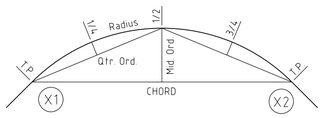


LIP LINE J
Hor250
Ver25

ALIGNMENT J

POINT NO	EASTING	NORTHING	RL
J1	288536.765	5802962.382	35.418
1/4	288536.760	5802962.519	35.421
1/2	288536.782	5802962.655	35.424
3/4	288536.829	5802962.783	35.427
J2	288536.901	5802962.900	35.430
J3	288538.371	5802964.828	35.486
1/4	288538.504	5802965.045	35.492
1/2	288538.593	5802965.284	35.498
3/4	288538.634	5802965.536	35.504
J4	288538.625	5802965.790	35.510
1/4	288537.535	5802968.964	35.460
1/2	288535.314	5802971.479	35.409
3/4	288532.299	5802972.953	35.365
J5	288528.950	5802973.161	35.338

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
J1-J2	0.700	0.550	0.536	0.053	0.013
J3-J4	1.300	1.021	0.995	0.099	-0.025
J4-J5	8.600	13.509	12.162	2.519	-0.655



KERB RETURN SETOUT DETAIL

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	19/09/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale H 1:250, V 1:25, A1
Horizontal 0 2.5 5 7.5 10 12.5
Vertical 0 0.25 0.5 0.75 1.0 1.25

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

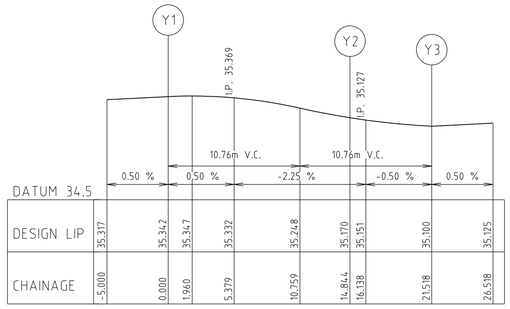
MAMBOURIN ESTATE
STAGE 1
INTERSECTION DETAILS
SHEET 5 OF 7
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303976R27** Rev **1**

ALIGNMENT Z

POINT NO	EASTING	NORTHING	RL
Z1	288550.476	5802814.296	35.242
Z2	288549.448	5802805.649	35.307
1/4	288549.246	5802804.473	35.320
1/2	288548.923	5802803.324	35.333
3/4	288548.483	5802802.214	35.346
Z3	288547.930	5802801.156	35.359
1/4	288547.695	5802800.865	35.362
1/2	288547.387	5802800.652	35.365
3/4	288547.031	5802800.536	35.368
Z4	288546.657	5802800.526	35.370
Z5	288544.619	5802800.769	35.378
1/4	288544.193	5802800.896	35.376
1/2	288543.835	5802801.159	35.373
3/4	288543.587	5802801.528	35.369
Z6	288543.477	5802801.959	35.363
1/4	288543.391	5802803.370	35.347
1/2	288543.354	5802804.783	35.330
3/4	288543.365	5802806.197	35.313
Z7	288543.424	5802807.610	35.296
Z8	288543.777	5802813.552	35.250
1/4	288543.796	5802813.851	35.248
1/2	288543.821	5802814.149	35.247
3/4	288543.850	5802814.448	35.245
Z9	288543.883	5802814.745	35.244
Z10	288543.922	5802815.075	35.242

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
Z2-Z3	11.500	4.777	4.743	0.247	0.062
Z3-Z4	1.300	1.502	1.420	0.211	0.054
Z5-Z6	1.300	1.787	1.650	0.295	0.076
Z6-Z7	41.300	5.656	5.651	0.097	0.024
Z8-Z9	20.300	1.199	1.198	0.009	0.002

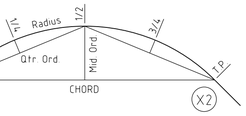


LIP LINE Y
Hor250
Ver25

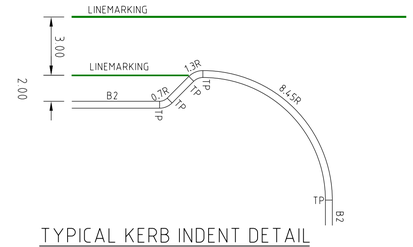
ALIGNMENT Y

POINT NO	EASTING	NORTHING	RL
Y1	288528.415	5802800.680	35.342
1/4	288532.091	5802800.967	35.343
1/2	288535.377	5802802.640	35.309
3/4	288537.773	5802805.442	35.240
Y2	288538.914	5802808.949	35.170
Y3	288539.702	5802815.576	35.100

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
Y1-Y2	9.450	14.844	13.364	2.768	-0.719



KERB RETURN SETOUT DETAIL



TYPICAL KERB INDENT DETAIL
N.T.S

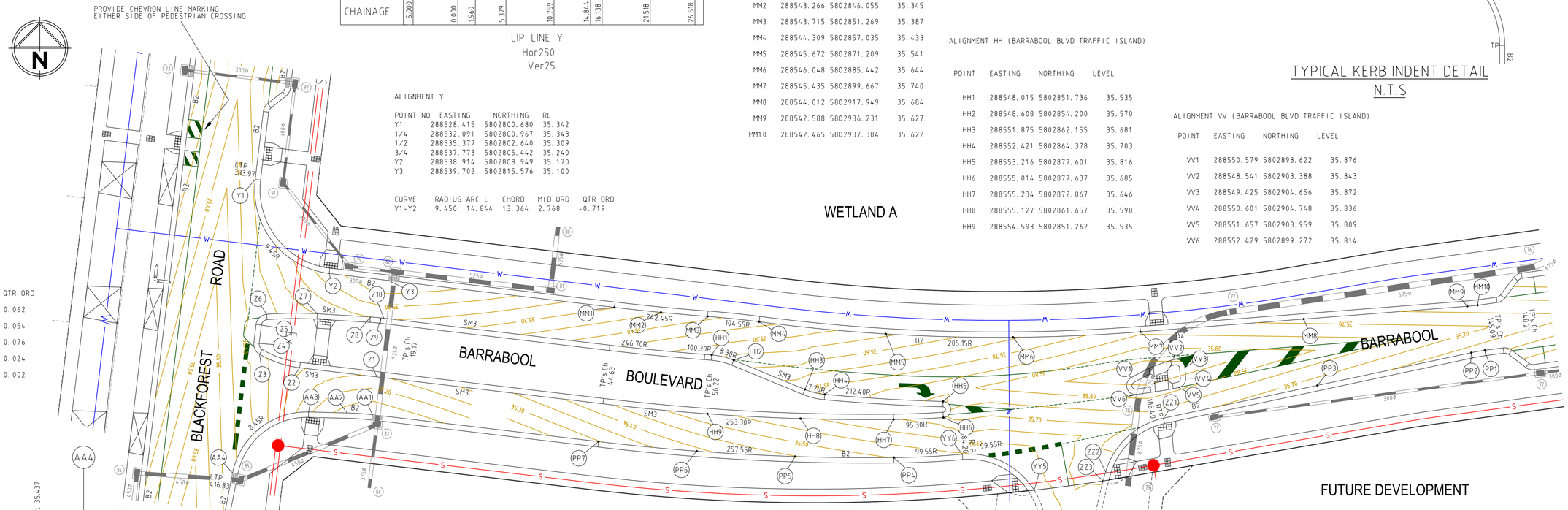
POINT	EASTING	NORTHING	LEVEL
MM1	288542.704	5802840.852	35.298
MM2	288543.266	5802846.055	35.345
MM3	288543.715	5802851.269	35.387
MM4	288544.309	5802857.035	35.433
MM5	288545.672	5802871.209	35.541
MM6	288546.048	5802885.442	35.644
MM7	288545.435	5802899.667	35.740
MM8	288544.012	5802917.949	35.684
MM9	288542.588	5802936.231	35.627
MM10	288542.465	5802937.384	35.622

ALIGNMENT HH (BARRABOOL BLVD TRAFFIC ISLAND)

POINT	EASTING	NORTHING	LEVEL
HH1	288548.015	5802851.736	35.535
HH2	288548.608	5802854.200	35.570
HH3	288551.875	5802862.155	35.681
HH4	288552.421	5802864.378	35.703
HH5	288553.216	5802877.601	35.816
HH6	288555.014	5802877.637	35.685
HH7	288555.234	5802872.067	35.646
HH8	288555.127	5802861.657	35.590
HH9	288554.593	5802851.262	35.535

ALIGNMENT VV (BARRABOOL BLVD TRAFFIC ISLAND)

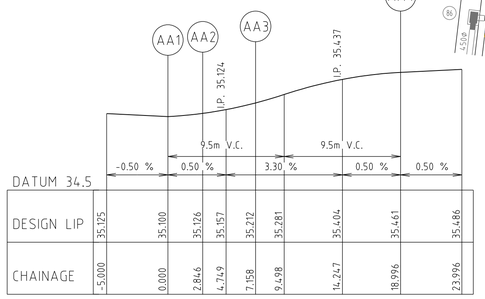
POINT	EASTING	NORTHING	LEVEL
VV1	288550.579	5802898.622	35.876
VV2	288548.541	5802903.388	35.843
VV3	288549.425	5802904.656	35.872
VV4	288550.601	5802904.748	35.836
VV5	288551.657	5802903.959	35.809
VV6	288552.429	5802899.272	35.814



ALIGNMENT AA

POINT NO	EASTING	NORTHING	RL
AA1	288554.696	5802813.795	35.100
1/4	288554.620	5802813.087	35.105
1/2	288554.561	5802812.378	35.110
3/4	288554.519	5802811.668	35.118
AA2	288554.493	5802810.957	35.126
AA3	288554.386	5802806.647	35.212
1/4	288554.827	5802803.735	35.301
1/2	288556.240	5802801.152	35.380
3/4	288558.454	5802799.211	35.433
AA4	288561.199	5802798.147	35.461

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
AA1-AA2	30.450	2.846	2.845	0.033	-0.008
AA3-AA4	8.450	11.838	10.893	1.990	-0.513



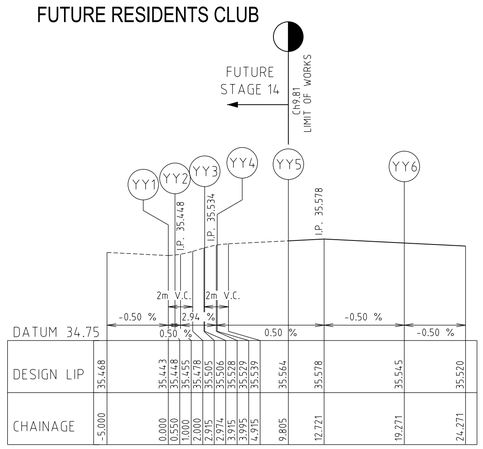
LIP LINE AA
Hor250
Ver25

POINT	EASTING	NORTHING	LEVEL
PP1	288547.500	5802938.211	35.621
PP2	288547.763	5802936.697	35.627
PP3	288551.425	5802919.475	35.671
PP4	288559.484	5802872.110	35.502
PP5	288559.361	5802861.075	35.448
PP6	288558.766	5802850.054	35.387
PP7	288557.699	5802839.071	35.298

ALIGNMENT YY

POINT NO	EASTING	NORTHING	RL
YY1	288571.528	5802886.393	35.443
1/4	288571.394	5802886.422	35.444
1/2	288571.268	5802886.477	35.445
3/4	288571.155	5802886.556	35.447
YY2	288571.060	5802886.655	35.448
YY3	288569.560	5802888.559	35.506
1/4	288569.384	5802888.743	35.513
1/2	288569.175	5802888.889	35.519
3/4	288568.941	5802888.991	35.525
YY4	288568.692	5802889.046	35.529
1/4	288564.925	5802888.654	35.554
1/2	288561.692	5802886.681	35.573
3/4	288559.620	5802883.510	35.565
YY6	288559.111	5802879.757	35.545

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
YY1-YY2	0.700	0.550	0.536	0.053	0.013
YY3-YY4	1.300	1.021	0.995	0.099	-0.025
YY4-YY6	8.600	15.276	13.345	3.175	-0.834

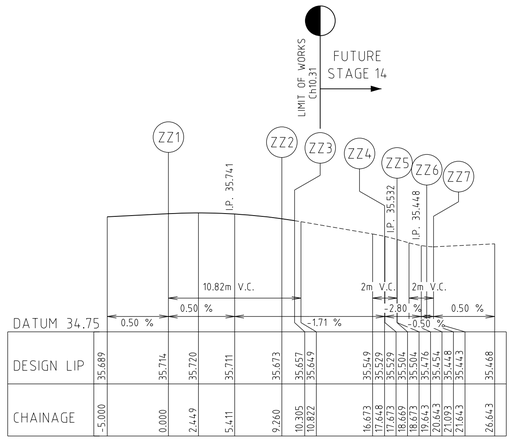


LIP LINE YY
Hor250
Ver25

ALIGNMENT ZZ

POINT NO	EASTING	NORTHING	RL
ZZ1	288555.087	5802902.252	35.714
1/4	288555.866	5802900.079	35.720
1/2	288557.194	5802898.192	35.715
3/4	288558.977	5802896.725	35.700
ZZ2	288561.085	5802895.786	35.673
1/4	288563.110	5802895.240	35.640
1/2	288565.155	5802894.778	35.604
3/4	288567.218	5802894.401	35.568
ZZ4	288569.294	5802894.110	35.529
1/4	288569.549	5802894.105	35.523
1/2	288569.800	5802894.150	35.517
3/4	288570.037	5802894.243	35.511
ZZ5	288570.252	5802894.380	35.504
ZZ6	288572.156	5802895.880	35.448
1/4	288572.272	5802895.954	35.446
1/2	288572.400	5802896.004	35.445
3/4	288572.535	5802896.028	35.444
ZZ7	288572.672	5802896.025	35.443

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
ZZ1-ZZ2	8.600	9.260	8.819	1.217	-0.310
ZZ2-ZZ4	50.450	8.388	8.378	0.174	-0.044
ZZ4-ZZ5	1.300	1.021	0.995	0.099	-0.025
ZZ6-ZZ7	0.700	0.550	0.536	0.053	0.013



LIP LINE ZZ
Hor250
Ver25

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WARNING
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THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

Rev	Amendments	Approved	Date
5	AS CONSTRUCTED	M.L	19/09/19
4	ROAD CROSS AND TRAFFIC ISLAND AT BARRABOOL BOULEVARD AND FUTURE	M.L	07/03/19
	RESIN STREET ADDED. TRAFFIC ISLAND VV SET OUT ADDED.		
3	FINISHED SURFACE CONTOURS UPDATED, LIP PROFILES YY & ZZ ADDED	M.L	20/02/19
	HH, MM & PP SETOUTS UPDATED		
2	INTERSECTION TO RESIDENT CLUB ADDED, RIGHT HAND TURNING LANE ADDED	M.L	31/01/19
1	BLACK FOREST ROAD INDENTED PARKING BAY AMENDED	M.L	27/09/18
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale H 1:250, V 1:25, A1
Horizontal 0 2.5 5 7.5 10 12.5
Vertical 0 0.25 0.5 0.75 1.0 1.25

dlcs AS/NZS ISO 9001 certified AS/NZS 4801 certified AS/NZS ISO 14001 certified

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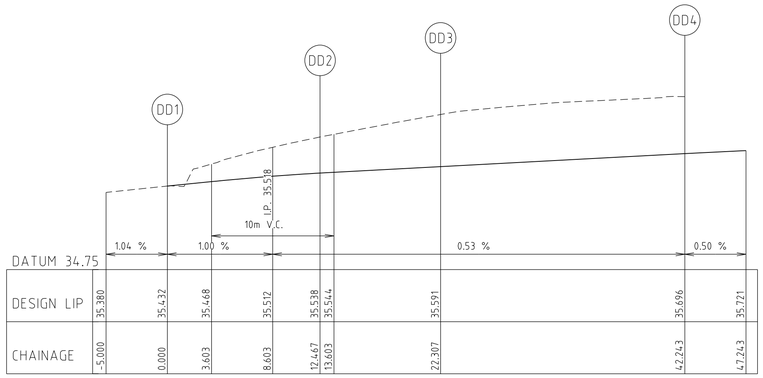
FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE
STAGE 1
INTERSECTION DETAILS
SHEET 6 OF 7
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303976R28**
Rev **5**



LIP LINE DD
Hor250
Ver25

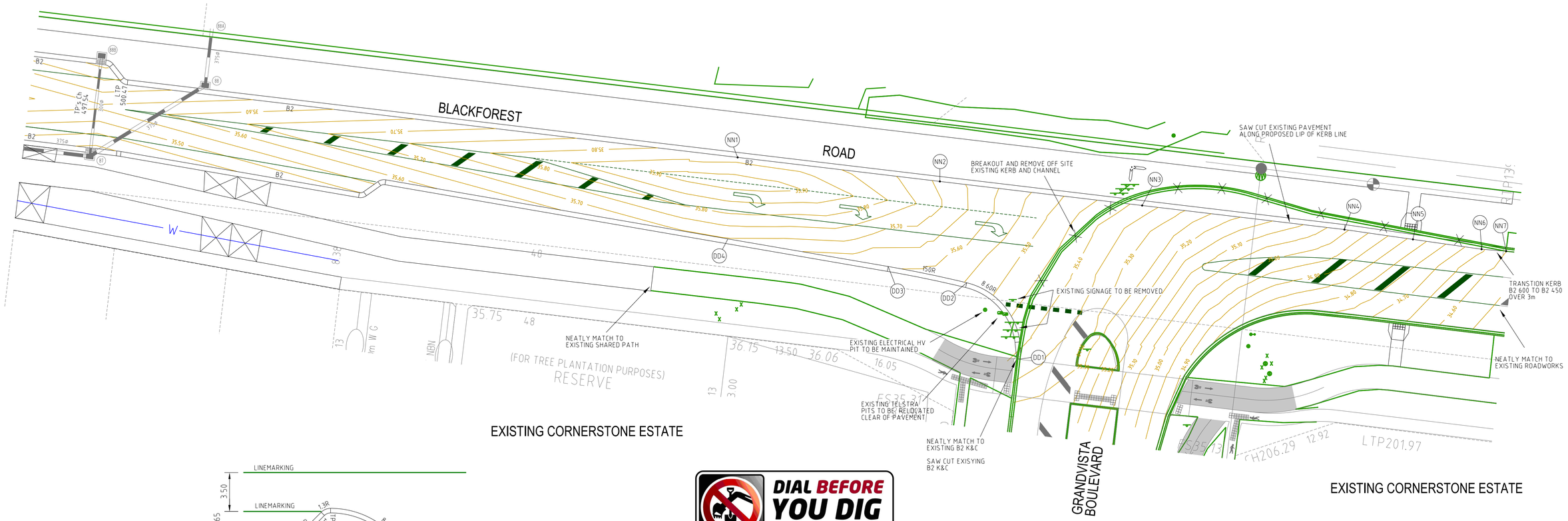
ALIGNMENT DD

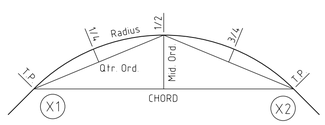
POINT NO	EASTING	NORTHING	RL
DD1	288753.570	5802753.335	35.432
1/4	288753.365	5802756.428	35.463
1/2	288752.077	5802759.247	35.493
3/4	288749.873	5802761.427	35.518
DD2	288747.040	5802762.684	35.538
1/4	288744.644	5802763.240	35.552
1/2	288742.238	5802763.757	35.565
3/4	288739.825	5802764.234	35.578
DD3	288737.404	5802764.672	35.591
DD4	288717.758	5802768.059	35.696

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
DD1-DD2	8.600	12.467	11.403	2.162	-0.559
DD2-DD3	150.000	9.841	9.839	0.081	-0.020

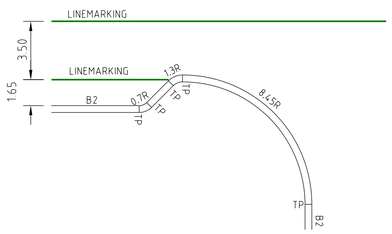
ALIGNMENT NN

POINT	EASTING	NORTHING	LEVEL
NN1	288718.945	5802778.044	35.830
NN2	288743.745	5802775.098	35.688
NN3	288768.547	5802772.151	35.382
NN4	288793.348	5802769.205	35.013
NN5	288801.751	5802768.001	34.836
NN6	288810.165	5802766.796	34.658
NN7	288813.183	5802766.547	34.600





KERB RETURN SETOUT DETAIL



TYPICAL KERB INDENT DETAIL
N.T.S

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Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	19/09/19
1	BLACKFOREST ROAD INDENTED PARKING BAY AMENDED	M.L	27/09/18
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale H 1:250, V 1:25, A1
Horizontal 0 2.5 5 7.5 10 12.5
Vertical 0 0.25 0.5 0.75 1.0 1.25

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE
STAGE 1
INTERSECTION DETAILS
SHEET 7 OF 7

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

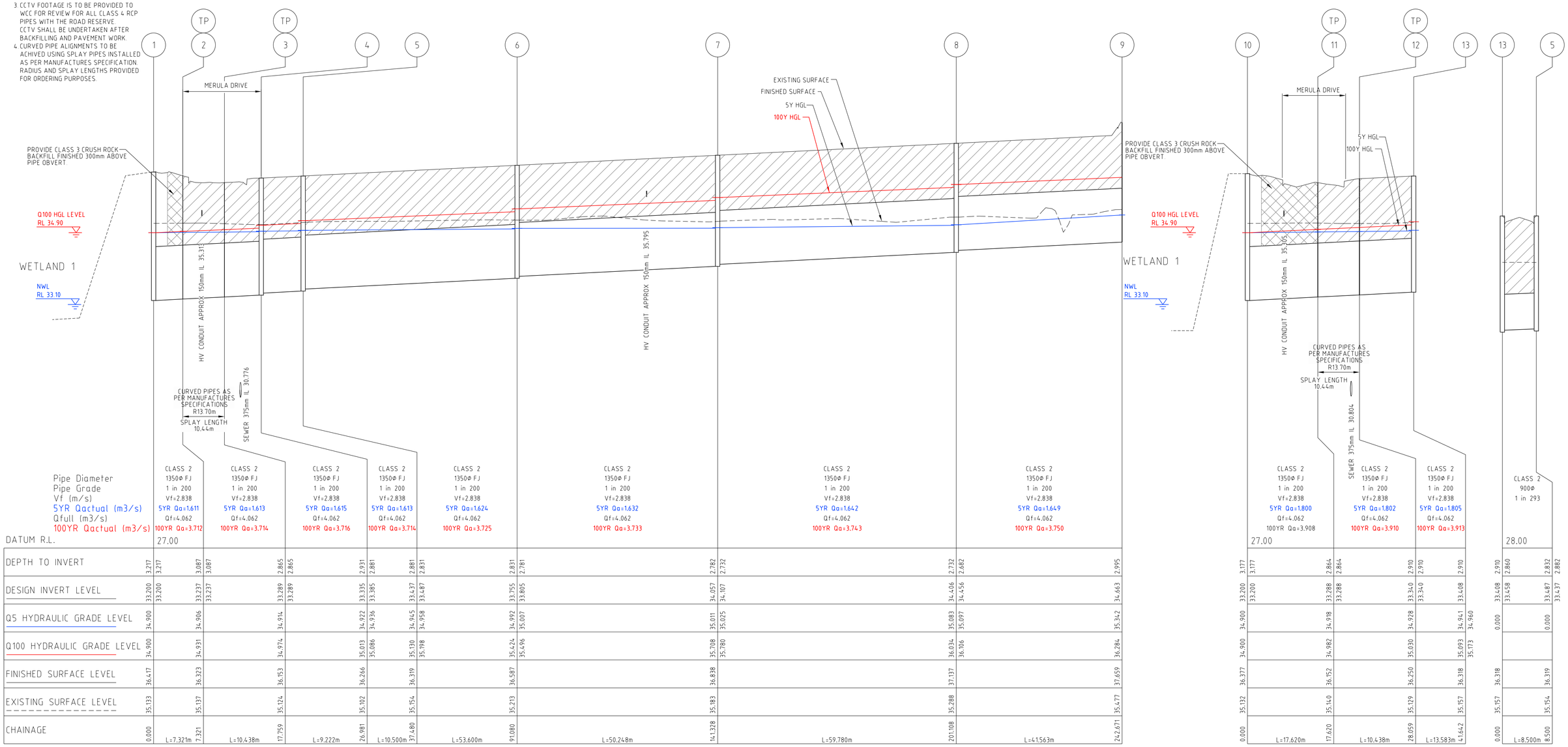
AS CONSTRUCTED Drg No **303976R29** Rev **2**

CRUSHED ROCK BACKFILL LEGEND

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

NOTE:
1. ALL PIPES TO BE RRJ DENOTES RUBBER RING JOINTED UNLESS NOTED OTHERWISE.
2. DRAINAGE PIPES GREATER THAN 750Ø ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS.
3. CCTV FOOTAGE IS TO BE PROVIDED TO WCC FOR REVIEW FOR ALL CLASS 4 RCP PIPES WITH THE ROAD RESERVE. CCTV SHALL BE UNDERTAKEN AFTER BACKFILLING AND PAVEMENT WORK.
4. CURVED PIPE ALIGNMENTS TO BE ACHIVED USING SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION. RADIUS AND SPLAY LENGTHS PROVIDED FOR ORDERING PURPOSES.



| | | |

CRUSHED ROCK BACKFILL LEGEND

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

NOTE:
1. ALL PIPES TO BE RRJ DENOTES RUBBER RING JOINTED UNLESS NOTED OTHERWISE.
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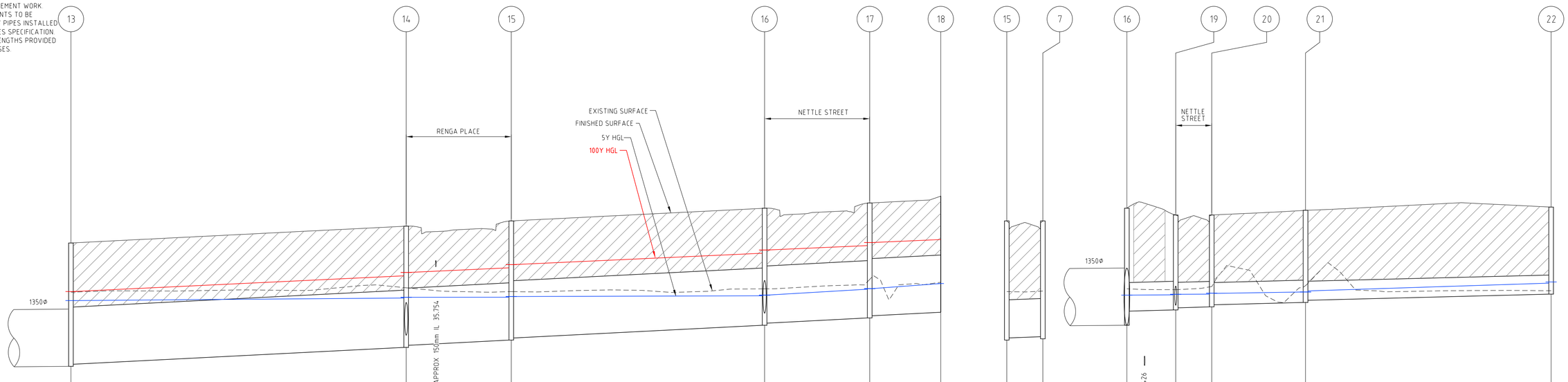

| | | |

CRUSHED ROCK BACKFILL LEGEND

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

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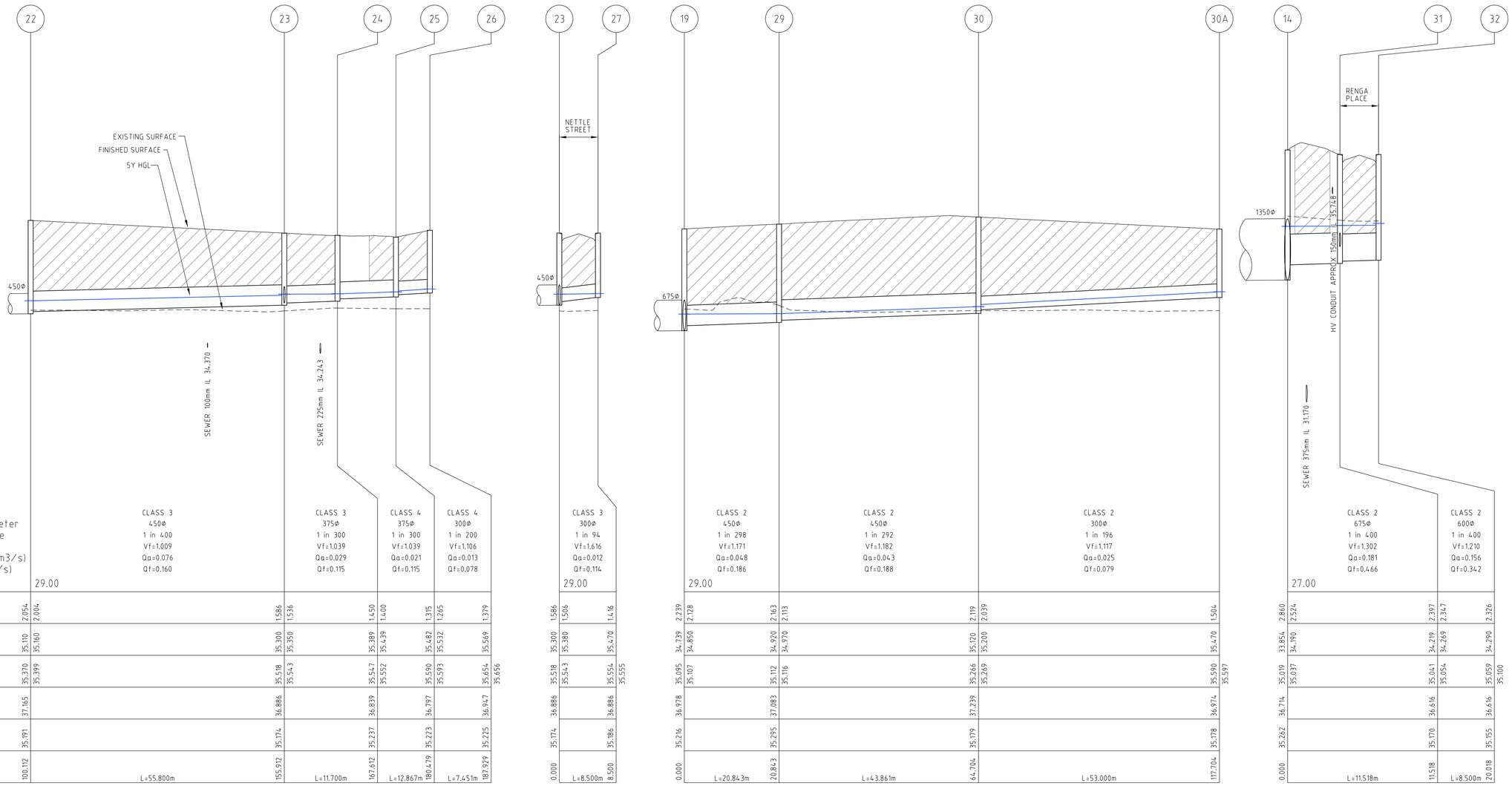

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	19/09/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale H 1:500, V 1:50, A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE STAGE 1
DRAINAGE LONG SECTION SHEET 3 OF 9
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303976R32** Rev **1**

CRUSHED ROCK BACKFILL LEGEND

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

NOTE:
1. ALL PIPES TO BE RRJ DENOTES RUBBER RING JOINTED UNLESS NOTED OTHERWISE.
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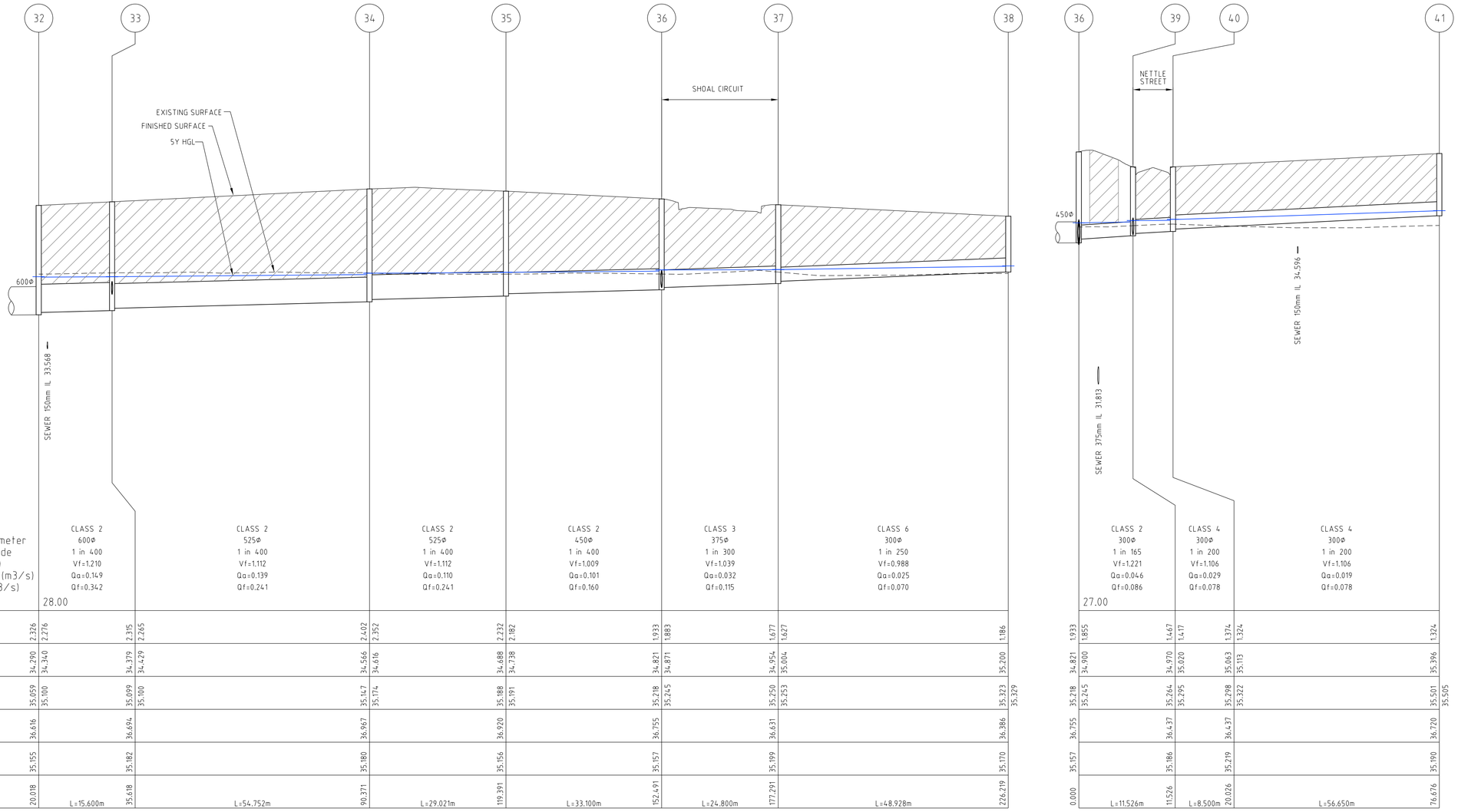

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	19/09/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale H 1:500, V 1:50, A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE STAGE 1
DRAINAGE LONG SECTION SHEET 4 OF 9
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303976R33**
Rev **1**

CRUSHED ROCK BACKFILL LEGEND

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

NOTE:
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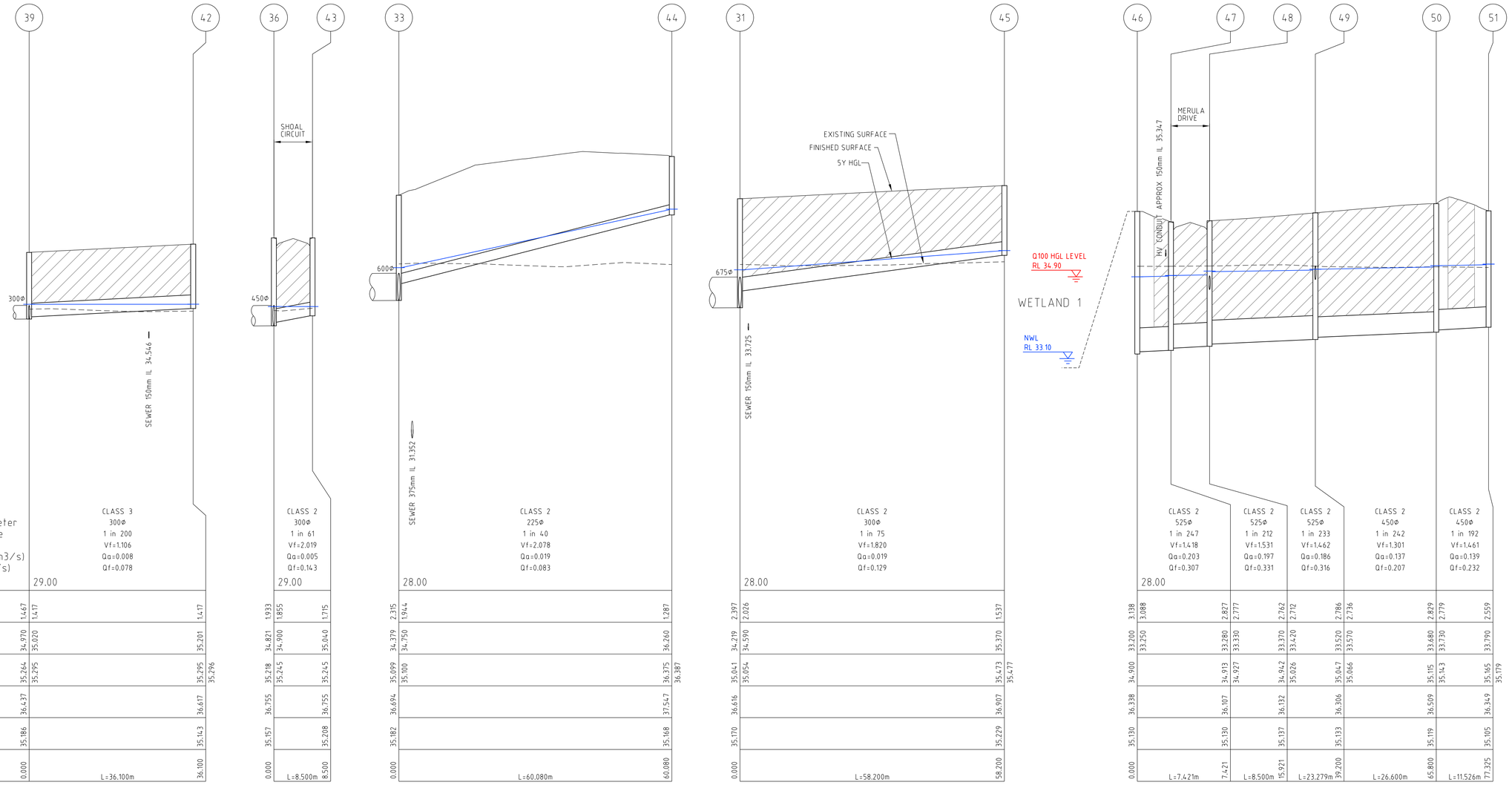

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	19/09/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale H 1:500, V 1:50, A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE STAGE 1
DRAINAGE LONG SECTION SHEET 5 OF 9
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303976R34**
Rev **1**

CRUSHED ROCK BACKFILL LEGEND

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

NOTE:
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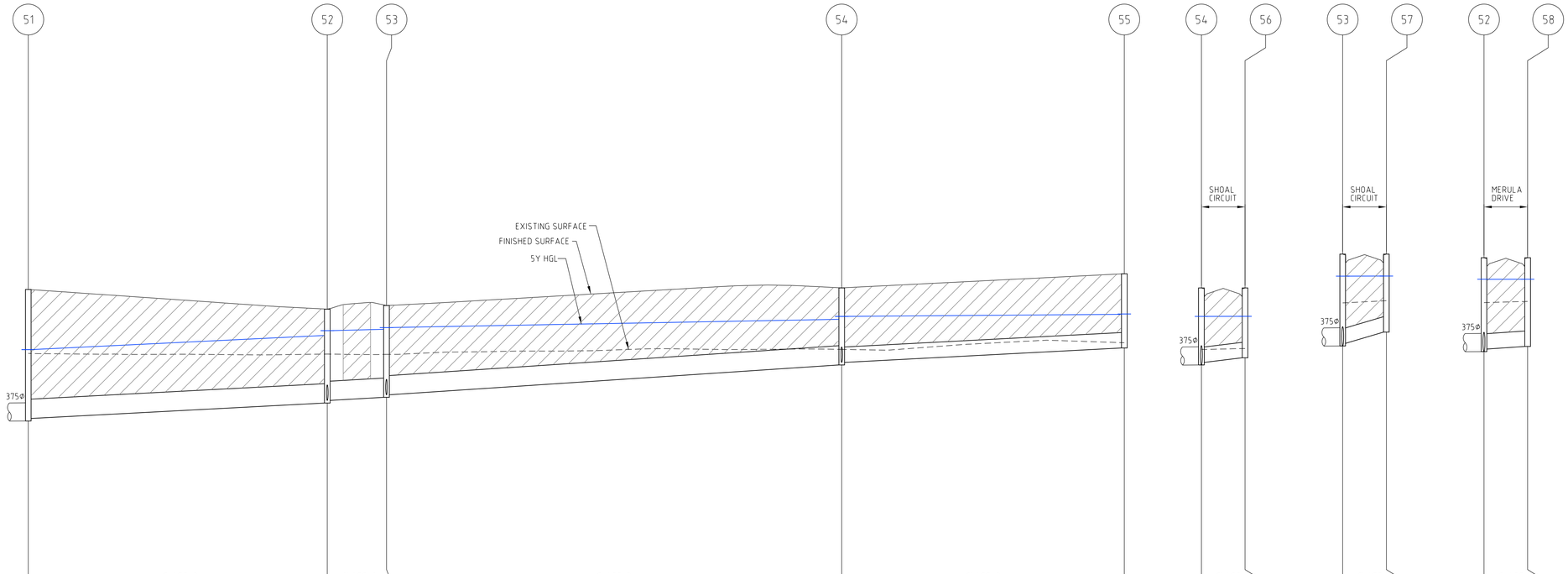

| | | |

CRUSHED ROCK BACKFILL LEGEND

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

NOTE:
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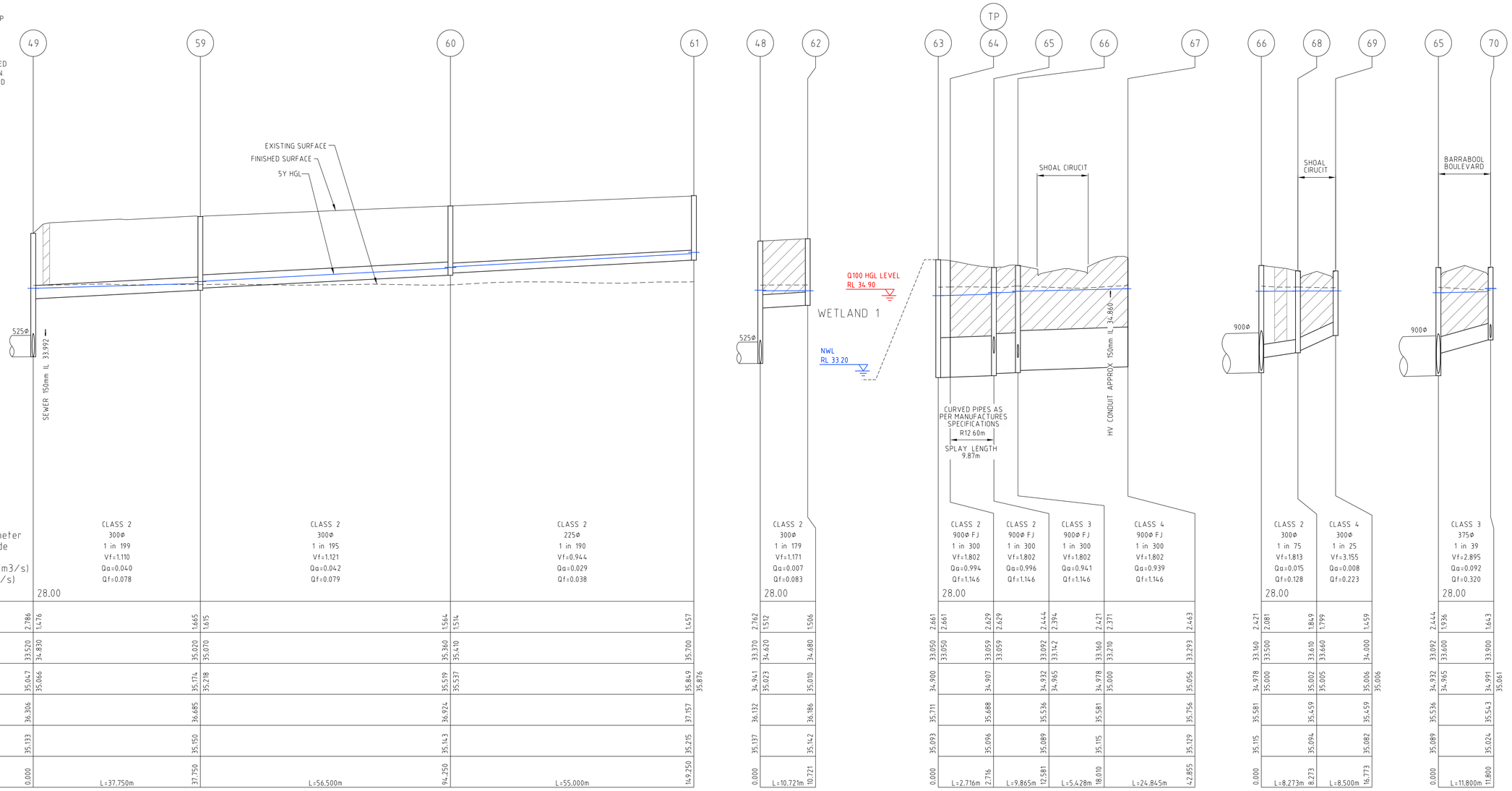

	49–59	59–60	60–61	48–62	62–64	64–65	65–66	66–67	67–68	68–69	69–70
Pipe Diameter Pipe Grade Vf (m/s) Qactual (m3/s) Qfull (m3/s)	CLASS 2 300Φ 1 in 199 Vf=1.110 Qa=0.040 Qf=0.078	CLASS 2 300Φ 1 in 195 Vf=1.121 Qa=0.042 Qf=0.079	CLASS 2 225Φ 1 in 190 Vf=0.944 Qa=0.029 Qf=0.038	CLASS 2 300Φ 1 in 179 Vf=1.171 Qa=0.007 Qf=0.083		CLASS 2 900Φ FJ 1 in 300 Vf=1.802 Qa=0.994 Qf=1.146	CLASS 2 900Φ FJ 1 in 300 Vf=1.802 Qa=0.996 Qf=1.146	CLASS 3 900Φ FJ 1 in 300 Vf=1.802 Qa=0.941 Qf=1.146	CLASS 4 900Φ FJ 1 in 300 Vf=1.802 Qa=0.939 Qf=1.146	CLASS 2 300Φ 1 in 75 Vf=1.813 Qa=0.015 Qf=0.128	CLASS 4 300Φ 1 in 25 Vf=3.155 Qa=0.008 Qf=0.223	CLASS 3 375Φ 1 in 39 Vf=2.895 Qa=0.092 Qf=0.320
DATUM R.L.	28.00			28.00		28.00				28.00		28.00
DEPTH TO INVERT	2.786 1.476 1.665	1.615 1.564	1.514 1.457	2.762 1.512 1.506		2.661 2.629	2.629 2.444	2.394 2.421	2.371 2.463	2.421 2.081 1.849	1.799 1.459	2.444 1.936 1.643
DESIGN INVERT LEVEL	33.520 34.830 35.020	35.070 35.360	35.410 35.700	33.370 34.620 34.680		33.050 33.059	33.059 33.092	33.142 33.160	33.210 33.293	33.160 33.500 33.610	33.660 34.000	33.092 33.600 33.900
HYDRAULIC GRADE LEVEL	35.047 35.066 35.174	35.218 35.519	35.537 35.849 35.876	34.941 35.023 35.010		34.900 34.907	34.932 34.965	34.978 35.000	35.056	34.978 35.000 35.002	35.005 35.006	34.932 34.965 34.991 35.061
FINISHED SURFACE LEVEL	36.306 36.685	36.924	37.157	36.132 36.186		35.711 35.688	35.536 35.581	35.581 35.756		35.581 35.459	35.459 35.006	35.536 35.543
EXISTING SURFACE LEVEL	35.133 35.150	35.143	35.215	35.137 35.142		35.093 35.096	35.089 35.115	35.129		35.115 35.094	35.082	35.089 35.024
CHAINAGE	0.000 L=37.750m 37.750	L=56.500m 94.250	L=55.000m 149.250	0.000 L=10.721m 10.721		0.000 L=2.716m 2.716	L=9.865m 12.581	L=5.428m 18.010	L=24.845m 42.855	0.000 L=8.273m 8.273	L=8.500m 16.773	0.000 L=11.800m 11.800

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	19/09/19
1	DRAINAGE 63-67, 66-69, 65-70 & 74-79 UPDATED.	M.L	15/10/18
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale H 1:500, V 1:50, A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE STAGE 1
DRAINAGE LONG SECTION SHEET 7 OF 9
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

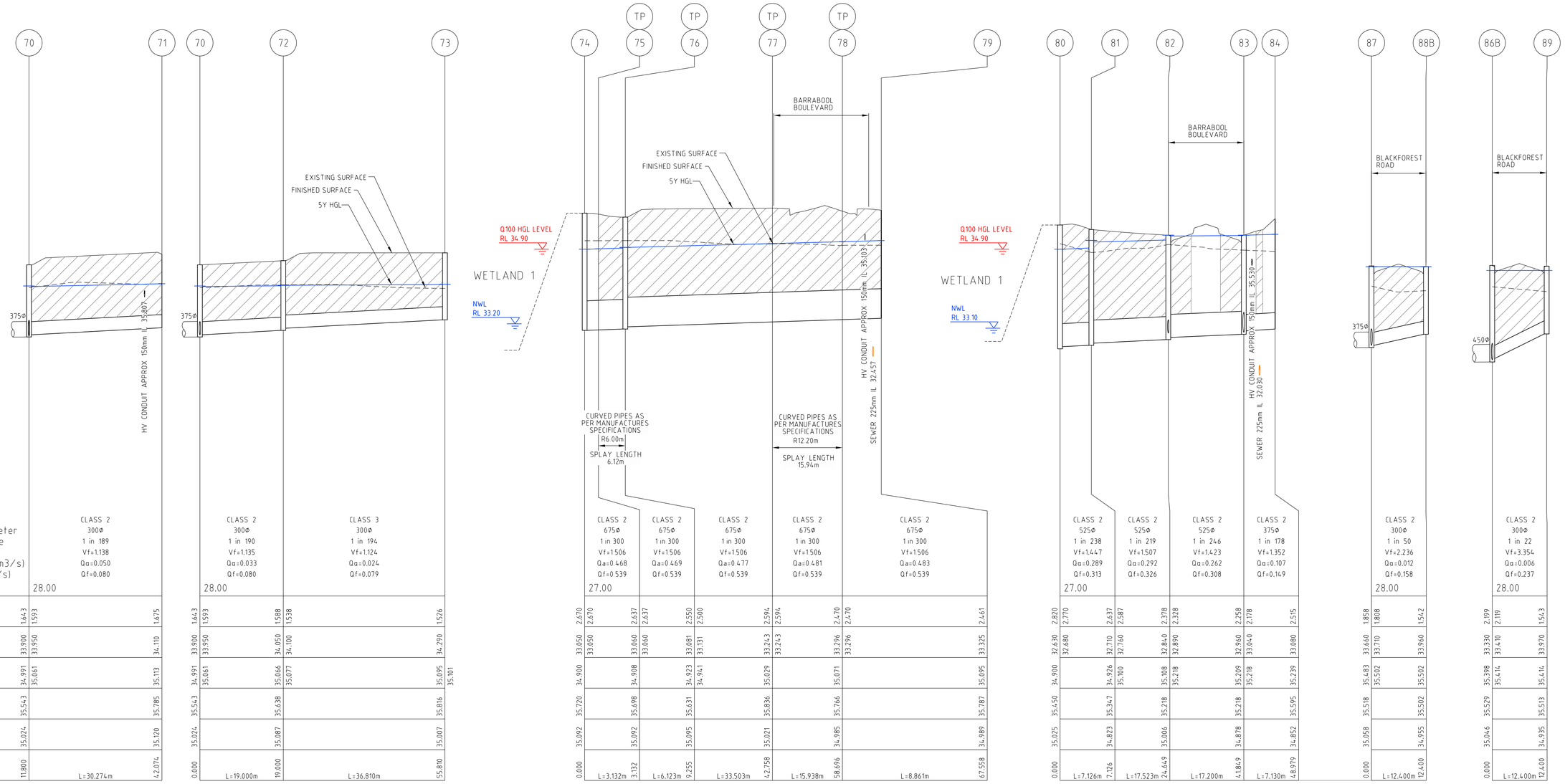
AS CONSTRUCTED Drg No **303976R36** Rev **2**

CRUSHED ROCK BACKFILL LEGEND

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

NOTE:
1. ALL PIPES TO BE RRJ DENOTES RUBBER RING JOINTED UNLESS NOTED OTHERWISE.
2. DRAINAGE PIPES GREATER THAN 750Φ ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS.
3. CCTV FOOTAGE IS TO BE PROVIDED TO WCC FOR REVIEW FOR ALL CLASS 4 RCP PIPES WITH THE ROAD RESERVE. CCTV SHALL BE UNDERTAKEN AFTER BACKFILLING AND PAVEMENT WORK.
4. CURVED PIPE ALIGNMENTS TO BE ACHIVED USING SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION. RADIUS AND SPLAY LENGTHS PROVIDED FOR ORDERING PURPOSES.



Rev	Amendments	Approved	Date
4	AS CONSTRUCTED	M.L	19/09/19
3	DRAINAGE LONGSECTION PIT 80 TO PIT 93 UPDATED.	M.L	07/03/19
2	DRAINAGE LONGSECTION PIT 77 TO PIT 90 UPDATED.	M.L	20/02/19
1	DRAINAGE 63-67, 66-69, 65-70 & 74-79 UPDATED.	M.L	15/10/18
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale H 1:500, V 1:50, A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE STAGE 1
DRAINAGE LONG SECTION SHEET 8 OF 9
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

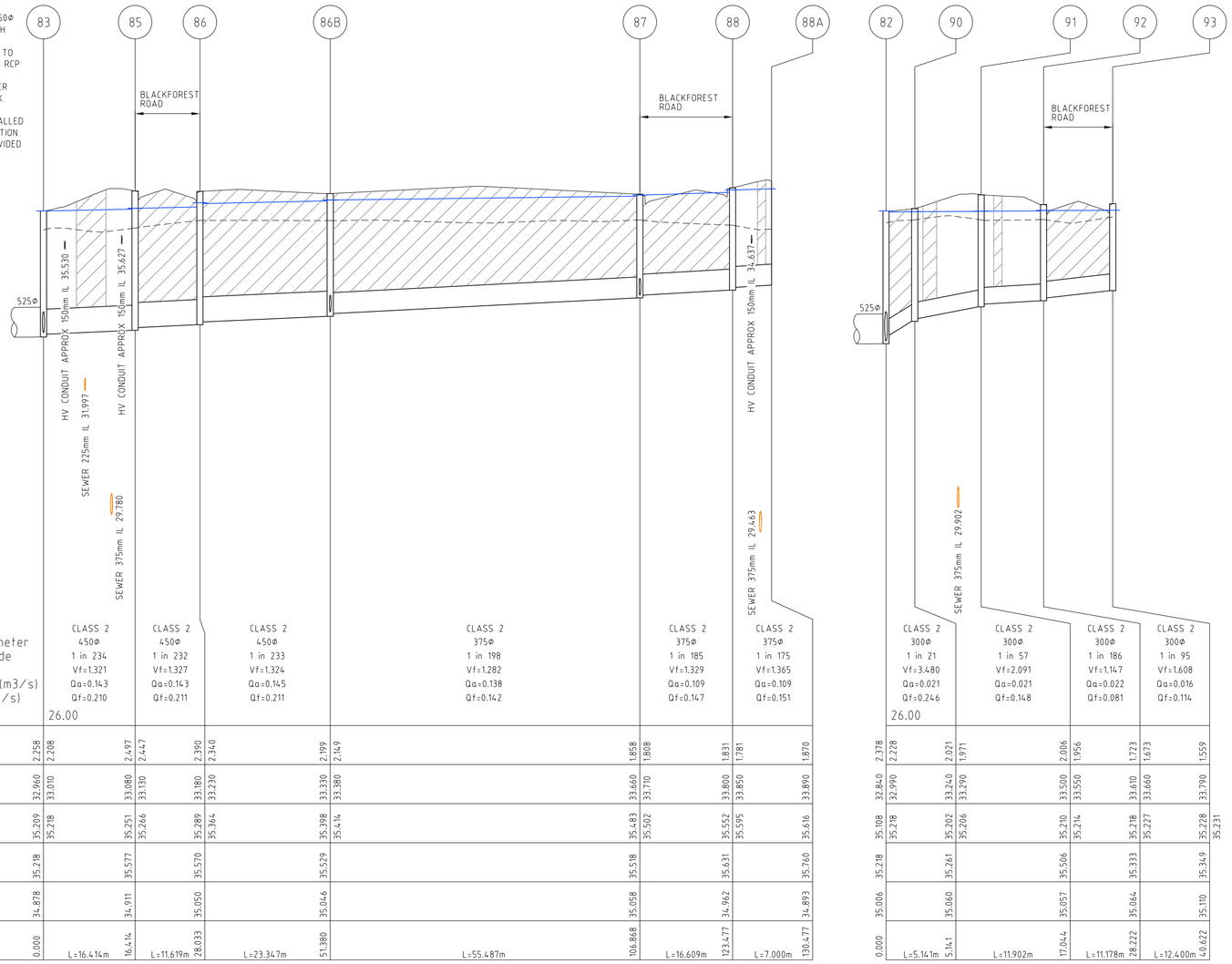
AS CONSTRUCTED
Drg No **303976R37**
Rev **4**

CRUSHED ROCK BACKFILL LEGEND

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

NOTE:
1. ALL PIPES TO BE RRJ DENOTES RUBBER RING JOINTED UNLESS NOTED OTHERWISE.
2. DRAINAGE PIPES GREATER THAN 750Ø ARE TO BE FLUSH JOINTED (F.J) WITH EXTERNAL SEALING BANDS.
3. CCTV FOOTAGE IS TO BE PROVIDED TO WCC FOR REVIEW FOR ALL CLASS 4 RCP PIPES WITH THE ROAD RESERVE. CCTV SHALL BE UNDERTAKEN AFTER BACKFILLING AND PAVEMENT WORK.
4. CURVED PIPE ALIGNMENTS TO BE ACHIVED USING SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION. RADIUS AND SPLAY LENGTHS PROVIDED FOR ORDERING PURPOSES.



DRAINAGE PIT SCHEDULE - STAGE 1

PIT		INTERNAL		INLET		OUTLET		PIT		
PIT No	TYPE	LENGTH	WIDTH	DIA	INV LEV	DIA	INV LEV	FINISHED COVER RL	DEPTH	REMARKS
1	JUNCTION CHAMBER			1350	33.20			36.417	3.217	TO BE CONSTRUCTED AND DETAILED WITH WETLAND WORKS
2	TANGENT POINT			1350	33.24	1350	33.237	36.323	3.087	PIPE TANGENT POINT
3	TANGENT POINT			1350	33.29	1350	33.289	36.153	2.865	PIPE TANGENT POINT
4	SIDE ENTRY PIT GRATED	900	1500	1350	33.39	1350	33.335	36.266	2.931	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
5	SIDE ENTRY PIT GRATED	1050	1500	1350	33.49	1350	33.437	36.319	2.881	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
				900	33.49					INCOMING BALANCE PIPE
6	SIDE ENTRY PIT GRATED	900	1500	1350	33.81	1350	33.755	36.587	2.831	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
7	SIDE ENTRY PIT GRATED	1050	1500	1350	34.11	1350	34.057	36.838	2.782	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
				900	34.11					INCOMING BALANCE PIPE
8	SIDE ENTRY PIT GRATED	900	1500	1350	34.46	1350	34.406	37.137	2.732	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
9	END PIPE					1350	34.663	37.659	2.995	OPEN END FOR CATCH DRAIN CONNECTION (REFER SHEET 25 FOR DETAILS)
10	JUNCTION CHAMBER			1350	33.20			36.377	3.177	TO BE CONSTRUCTED AND DETAILED WITH WETLAND WORKS
11	TANGENT POINT			1350	33.29	1350	33.288	36.152	2.864	PIPE TANGENT POINT
12	TANGENT POINT			1350	33.34	1350	33.34	36.250	2.91	PIPE TANGENT POINT
13	SIDE ENTRY PIT GRATED	1050	1500	1350	33.46	1350	33.408	36.318	2.91	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
				900	33.46					INCOMING BALANCE PIPE
14	SIDE ENTRY PIT GRATED	900	1500	1350	33.90	1350	33.854	36.714	2.86	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
				675	34.19					
15	SIDE ENTRY PIT GRATED	1050	1500	1350	34.08	1350	34.028	36.838	2.811	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
				900	34.08					INCOMING BALANCE PIPE
16	SIDE ENTRY PIT GRATED	900	1500	1350	34.43	1350	34.377	37.137	2.761	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
				675	34.71					
17	SIDE ENTRY PIT GRATED	900	1500	1350	34.60	1350	34.551	37.261	2.711	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
18	END PIPE					1350	34.684	37.427	2.742	OPEN END FOR CATCH DRAIN CONNECTION (REFER SHEET 25 FOR DETAILS)
19	SIDE ENTRY PIT GRATED	900	900	600	34.79	675	34.739	36.978	2.239	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
				450	34.85					
20	SIDE ENTRY PIT GRATED	900	900	525	34.86	600	34.81	36.978	2.168	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
21	SIDE ENTRY PIT GRATED	900	900	450	34.97	525	34.915	37.088	2.173	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
22	JUNCTION PIT	900	900	450	35.16	450	35.11	37.165	2.054	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
23	SIDE ENTRY PIT GRATED	900	600	375	35.35	450	35.3	36.886	1.586	REFER DRAWING - EDCM 601
				300	35.38					
24	JUNCTION PIT	900	600	375	35.44	375	35.389	36.839	1.45	REFER DRAWING - EDCM 605
25	GRATED JUNCTION PIT	900	600	300	35.53	375	35.482	36.797	1.315	REFER DRAWING - EDCM 605 - PROVIDE HEAVY DUTY GRATE COVER
26	GRATED JUNCTION PIT	900	600			300	35.569	36.947	1.379	REFER DRAWING - EDCM 605 - PROVIDE HEAVY DUTY GRATE COVER
27	SIDE ENTRY PIT GRATED	900	600			300	35.47	36.886	1.416	REFER DRAWING - EDCM 601
29	SIDE ENTRY PIT GRATED	900	600	450	34.97	450	34.92	37.083	2.163	REFER DRAWING - EDCM 601
30	JUNCTION PIT	900	600	300	35.20	450	35.12	37.239	2.119	REFER DRAWING - EDCM 605
30A	JUNCTION PIT					300	35.47	36.974	1.504	REFER DRAWING - EDCM 605
31	SIDE ENTRY PIT GRATED	900	900	600	34.27	675	34.219	36.616	2.397	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
				300	34.59					
32	SIDE ENTRY PIT GRATED	900	900	600	34.34	600	34.29	36.616	2.326	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
33	SIDE ENTRY PIT GRATED	900	900	525	34.43	600	34.379	36.694	2.315	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
				225	34.75					
34	JUNCTION PIT	900	900	525	34.62	525	34.566	36.967	2.402	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
35	JUNCTION PIT	900	900	450	34.74	525	34.688	36.920	2.232	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
36	SIDE ENTRY PIT GRATED	900	900	375	34.87	450	34.821	36.755	1.933	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
				300	34.90					
				300	34.90					
37	SIDE ENTRY PIT GRATED	900	600	300	35.00	375	34.954	36.631	1.677	REFER DRAWING - EDCM 601
38	JUNCTION PIT	900	600			300	35.2	36.386	1.186	REFER DRAWING - EDCM 605
39	SIDE ENTRY PIT GRATED	900	600	300	35.02	300	34.97	36.437	1.467	REFER DRAWING - EDCM 601
				300	35.02					
40	SIDE ENTRY PIT GRATED	900	600	300	35.11	300	35.063	36.437	1.374	REFER DRAWING - EDCM 601
41	JUNCTION PIT	900	600			300	35.396	36.720	1.324	REFER DRAWING - EDCM 605
42	JUNCTION PIT	900	600			300	35.201	36.617	1.417	REFER DRAWING - EDCM 605
43	SIDE ENTRY PIT GRATED	900	600			300	35.04	36.755	1.715	REFER DRAWING - EDCM 601
44	JUNCTION PIT	900	600			225	36.26	37.547	1.287	REFER DRAWING - EDCM 605
45	JUNCTION PIT	900	600			300	35.37	36.907	1.537	REFER DRAWING - EDCM 605
46	JUNCTION CHAMBER			525	33.25			36.338	3.138	TO BE CONSTRUCTED AND DETAILED WITH WETLAND WORKS
47	SIDE ENTRY PIT GRATED	900	900	525	33.33	525	33.28	36.107	2.827	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
48	SIDE ENTRY PIT GRATED	900	900	525	33.42	525	33.37	36.132	2.762	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
				300	34.62					
49	JUNCTION PIT	900	900	450	33.57	525	33.52	36.306	2.786	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
				300	34.83					
50	JUNCTION PIT	900	900	450	33.73	450	33.68	36.509	2.829	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
51	JUNCTION PIT	900	900	375	33.84	450	33.79	36.349	2.559	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
52	SIDE ENTRY PIT GRATED	900	600	375	34.19	375	34.14	35.966	1.826	REFER DRAWING - EDCM 601
				300	34.19					
53	SIDE ENTRY PIT GRATED	900	600	375	34.30	375	34.25	36.036	1.786	REFER DRAWING - EDCM 601
				300	34.30					
54	SIDE ENTRY PIT GRATED	900	600	300	34.93	375	34.88	36.379	1.499	REFER DRAWING - EDCM 601
				300	34.93					
55	JUNCTION PIT	900	600			300	35.21	36.654	1.444	REFER DRAWING - EDCM 605
56	SIDE ENTRY PIT GRATED	900	600			300	35.02	36.379	1.359	REFER DRAWING - EDCM 601
57	SIDE ENTRY PIT GRATED	900	600			300	34.52	36.036	1.516	REFER DRAWING - EDCM 601
58	SIDE ENTRY PIT GRATED	900	600			300	34.24	35.966	1.726	REFER DRAWING - EDCM 601
59	JUNCTION PIT	900	600	300	35.07	300	35.02	36.685	1.665	REFER DRAWING - EDCM 605
60	JUNCTION PIT	900	600	225	35.41	300	35.36	36.924	1.564	REFER DRAWING - EDCM 605
61	JUNCTION PIT	900	600			225	35.7	37.157	1.457	REFER DRAWING - EDCM 605
62	JUNCTION PIT	900	600			300	34.68	36.186	1.506	REFER DRAWING - EDCM 605
63	JUNCTION CHAMBER			900	33.05			35.711	2.661	TO BE CONSTRUCTED AND DETAILED WITH WETLAND WORKS
64	TANGENT POINT			900	33.06	900	33.059	35.688	2.629	PIPE TANGENT POINT
65	SIDE ENTRY PIT GRATED	900	1050	900	33.14	900	33.092	35.536	2.444	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
				375	33.60					
66	JUNCTION PIT	900	1050	900	33.21	900	33.16	35.581	2.421	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409
				300	33.50					
67	END PIPE					900	33.293	35.756	2.463	BLANK END WITH TIMBER
68	SIDE ENTRY PIT GRATED	900	600	300	33.66	300	33.61	35.459	1.849	REFER DRAWING - EDCM 601
69	SIDE ENTRY PIT GRATED	900	600			300	34	35.459	1.459	REFER DRAWING - EDCM 601
70	SIDE ENTRY PIT GRATED	900	600	300	33.95	375	33.9	35.543	1.643	REFER DRAWING - EDCM 601
				300	33.95					
71	END PIPE					300	34.11	35.785	1.675	BLANK END WITH TIMBER
72	JUNCTION PIT	900	600	300	34.10	300	34.05	35.638	1.588	REFER DRAWING - EDCM 605
73	JUNCTION PIT	900	600			300	34.29	35.816	1.526	REFER DRAWING - EDCM 605
74	JUNCTION CHAMBER			675	33.05			35.720	2.67	TO BE CONSTRUCTED AND DETAILED WITH WETLAND WORKS
75	TANGENT POINT			675	33.06	675	33.06	35.698	2.637	PIPE TANGENT POINT
76	JUNCTION PIT	900	900	675	33.13	675	33.081	35.631	2.55	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING UNDER KERB)
77	TANGENT POINT			675	33.24	675	33.243	35.836	2.594	PIPE TANGENT POINT
78	TANGENT POINT			675	33.30	675	33.296	35.766	2.47	PIPE TANGENT POINT
79	END PIPE					675	33.325	35.787	2.461	OPEN END FOR CATCH DRAIN CONNECTION
80	JUNCTION CHAMBER			525	32.68			35.450	2.82	TO BE CONSTRUCTED AND DETAILED WITH WETLAND WORKS
81	JUNCTION PIT	900	900	525	32.76	525	32.71	35.347	2.637	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
82	SIDE ENTRY PIT GRATED	900	900	525	32.89	525	32.84	35.218	2.378	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
				300	32.99					
83	SIDE ENTRY PIT GRATED	900	900	375	33.04	525	32.96	35.218	2.258	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
				450	33.01					
84	END PIPE					375	33.08	35.595	2.515	OPEN END FOR CATCH DRAIN CONNECTION
85	SIDE ENTRY PIT GRATED	900	900	450	33.13	450	33.08	35.577	2.497	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
86	SIDE ENTRY PIT GRATED	900	900	450	33.23	450	33.18	35.570	2.39	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
86B	SIDE ENTRY PIT GRATED	900	900	375	33.38	450	33.33	35.529	2.199	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
				300	33.41					
87	SIDE ENTRY PIT GRATED	900	600	375	33.71	375	33.66	35.518	1.858	REFER DRAWING - EDCM 601
				300	33.71					
88	JUNCTION PIT	900	600	375	33.85	375	33.8	35.631	1.831	REFER DRAWING - EDCM 605
88A	END PIPE					375	33.89	35.760	1.87	BLANK END WITH TIMBER
88B	SIDE ENTRY PIT GRATED	900	600			300	33.96	35.502	1.542	REFER DRAWING - EDCM 601
89	SIDE ENTRY PIT GRATED	900	600			300	33.97	35.513	1.543	REFER DRAWING - EDCM 601
90	JUNCTION PIT	900	900	300	33.29	300	33.24	35.261	2.021	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
91	JUNCTION PIT	900	900	300	33.55	300	33.5	35.506	2.006	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
92	SIDE ENTRY PIT GRATED	900	600	300	33.66	300	33.61	35.333	1.723	REFER DRAWING - EDCM 601
93	SIDE ENTRY PIT GRATED	900	600			300	33.79	35.349	1.559	REFER DRAWING - EDCM 601

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Scale H 1:500, V 1:50, A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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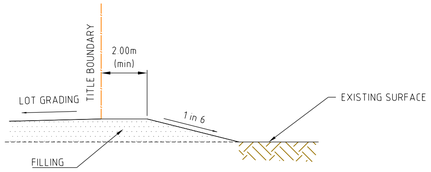
FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

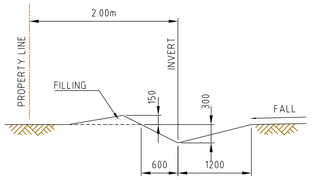
MAMBOURIN ESTATE
STAGE 1
DRAINAGE LONG SECTION & PIT SCHEDULE
SHEET 9 OF 9
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303976R38**
Rev **4**



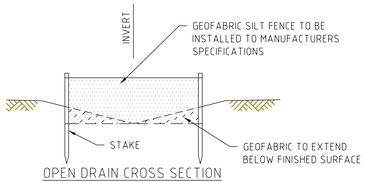
LOT FILLING AT STAGE BOUNDARY

N.T.S



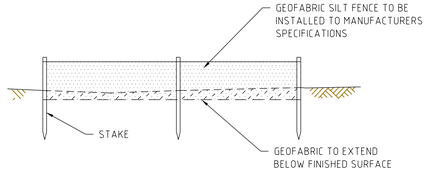
TYPICAL CATCH DRAIN SECTION

N.T.S



OPEN DRAIN CROSS SECTION

GEOFABRIC SILT FENCE

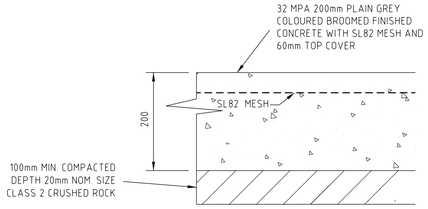


SILT CONTROL FOR LOTS

GEOFABRIC SILT FENCE

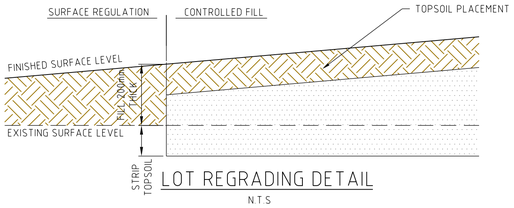
SILT CONTROL OPTIONS

NOT TO SCALE



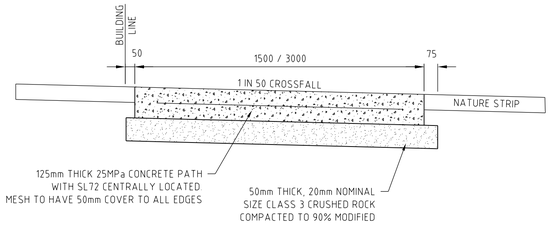
RIGID PAVEMENT DETAIL FOR LONG DRIVEWAY

NOTE: ALL JOINTING TO BE AS PER C & C AA GUIDELINES.



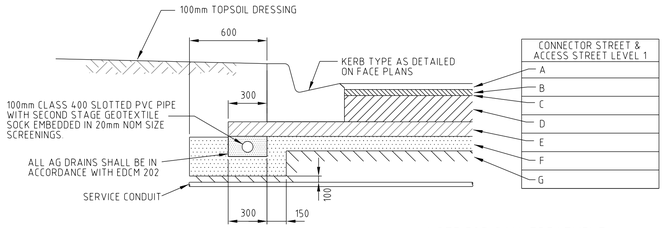
LOT REGRADING DETAIL

N.T.S



TYPICAL RESIDENTIAL FOOTPATH CROSS SECTION

N.T.S



NEW CONSTRUCTION

N.T.S

NOTE FOR SAMI TREATMENT

DESIGN AND APPLICATION OF SAMI, INCLUDING MATERIAL REQUIREMENTS, SHOULD COMPLY WITH VICROADS STANDARD SPECIFICATION FOR ROADWORKS AND BRIDGEWORKS SECTION 408 AND THE CURRENT AUSTROADS SPRAYED SEAL DESIGN METHOD.

DESIGN PAVEMENT PROFILE FOR CONNECTOR STREET

	PAVEMENT LAYER	DESCRIPTION	DEPTH (mm) CONNECTOR STREET
A	ASPHALT WEARING COURSE	Size 14 Type N Asphalt	40
B	ASPHALT STRUCTURAL COURSE	Size 20 Type SI Asphalt	60
D	BASE	Size 20 Type SI Asphalt	90
		UPPER PAVEMENT TOTAL	190
E	UPPER SUBBASE	20mm 3% Cement Treated Crushed Rock (E=500MPa)	120
F	LOWER SUBBASE	Class 3 Crushed Rock (size 20mm). Compacted in 2 layers	100
G	CAPPING LAYER	Type A - Working platform achieving CBR > 5%; Properties: CBR >15.0%, Swell <1.5 %, Permeability < 1E-9 m/s (thickness to be confirmed during construction)	305
H	ADDITIONAL SUBGRADE IMPROVEMENT	Type A - Working platform achieving CBR > 10%; Properties: CBR >8.0%, Swell <1.5 %, Permeability < 1E-9 m/s To be compacted in 2 layers	150
		TOTAL PAVEMENT DEPTH	865

NOTE:
REFER TO SITE GEOTECHNICAL PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION INCLUDING PAVEMENT DESIGN, FILL SPECIFICATION AND RECOMMENDATIONS FOR SEWERS, RETAINING WALLS AND WETLANDS" FOR COMPACTION DETAILS.
BASED UPON A CONTROLLED FILL CBR OF 2%.

DESIGN PAVEMENT PROFILE FOR ACCESS STREET LEVEL 2

	PAVEMENT LAYER	DESCRIPTION	DEPTH (mm) ACCESS STREET LVL 2
A	ASPHALT WEARING COURSE	Size 14mm Type N Asphalt	40
B	ASPHALT STRUCTURAL COURSE	Size 14mm Type HP or Type N Asphalt	40
C		Prime Coat and SAMI treatment (size 10 S18RF)	0
		approximately 10mm thick	
D	BASE	Class 2 Crushed Rock (size 20mm)	110
		UPPER PAVEMENT TOTAL	190
E	UPPER SUBBASE	Class 2 Crushed Rock (size 20mm)	140
F	LOWER SUBBASE	Class 3 Crushed Rock (size 20mm). Compacted in 2 layers	150
G	CAPPING LAYER	Type A - Working platform achieving CBR > 5%; Properties: CBR >15.0%, Swell <1.5 %, Permeability < 1E-9 m/s (thickness to be confirmed during construction)	160
		TOTAL PAVEMENT DEPTH	640

NOTE:
REFER TO SITE GEOTECHNICAL PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION INCLUDING PAVEMENT DESIGN, FILL SPECIFICATION AND RECOMMENDATIONS FOR SEWERS, RETAINING WALLS AND WETLANDS" FOR COMPACTION DETAILS.
BASED UPON A CONTROLLED FILL CBR OF 2%.

DESIGN PAVEMENT PROFILE FOR ACCESS STREET LEVEL 1

	PAVEMENT LAYER	DESCRIPTION	DEPTH (mm) ACCESS STREET LVL 1
A	ASPHALT WEARING COURSE	Size 10mm Type N Asphalt	30
B	ASPHALT STRUCTURAL COURSE	Size 10mm Type N Asphalt	30
C		Prime Coat and SAMI treatment (size 10 S18RF)	0
		approximately 10mm thick	
D	BASE	Class 2 Crushed Rock (size 20mm)	130
		UPPER PAVEMENT TOTAL	190
E	UPPER SUBBASE	Class 2 Crushed Rock (size 20mm)	100
F	LOWER SUBBASE	Class 3 Crushed Rock (size 20mm). Compacted in 2 layers	150
G	CAPPING LAYER	Type A - Working platform achieving CBR > 5%; Properties: CBR >15.0%, Swell <1.5 %, Permeability < 1E-9 m/s (thickness to be confirmed during construction)	160
		TOTAL PAVEMENT DEPTH	600

NOTE:
REFER TO SITE GEOTECHNICAL PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION INCLUDING PAVEMENT DESIGN, FILL SPECIFICATION AND RECOMMENDATIONS FOR SEWERS, RETAINING WALLS AND WETLANDS" FOR COMPACTION DETAILS.
BASED UPON A CONTROLLED FILL CBR OF 2%.

ROAD TYPE DESIGNATIONS

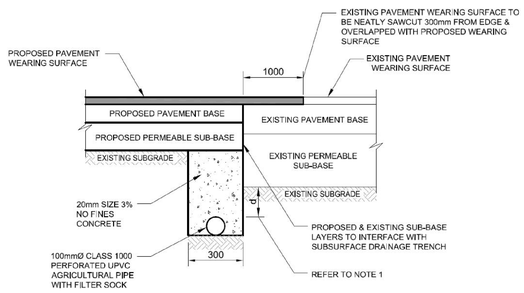
ROAD NAME	ROAD PAVEMENT TYPE
BLACK FOREST ROAD	CONNECTOR STREET
BARRABOOL BOULEVARD	ACCESS STREET LVL 2
SHOAL CIRCUIT	ACCESS STREET LVL 1
MERULA DRIVE	ACCESS STREET LVL 1
STEM CLOSE	ACCESS STREET LVL 1
RENGA PLACE	ACCESS STREET LVL 1
NETTLE STREET	ACCESS STREET LVL 1
LONG DRIVEWAY	RIGID PAVEMENT

PAVEMENT DETAILS

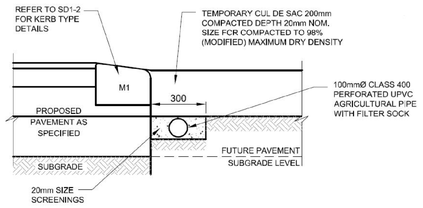
THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY SITE GEOTECHNICAL PTY LTD WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF SITE GEOTECHNICAL PTY LTD.

THE DESIGN HAS BEEN EXTRACTED FROM THE SITE GEOTECHNICAL PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION INCLUDING PAVEMENT DESIGN, FILL SPECIFICATION AND RECOMMENDATIONS FOR SEWERS, RETAINING WALLS AND WETLANDS". THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED. A COPY OF THE DOCUMENT WILL BE PROVIDED TO YOU ON REQUEST.

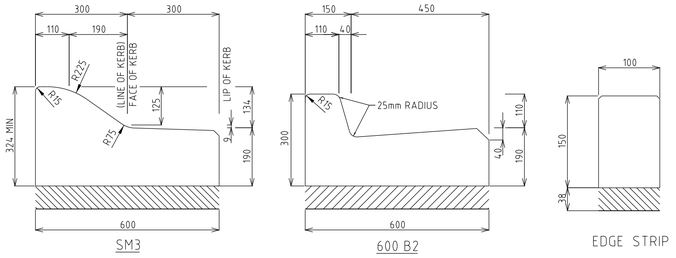
SPIIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS.
ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO SITE GEOTECHNICAL PTY LTD AND SENT TO SPIIRE.



SUBSURFACE DRAIN AT INTERSECTING PAVEMENTS



TEMPORARY EDGE STRIP



STANDARD KERB PROFILES

NOT TO SCALE

NOTES:
1. ALL KERBS AND KERB & CHANNEL TO BE REINFORCED IN ACCORDANCE WITH MUNICIPALITY STD DRAWINGS.
2. ALL KERBS AND KERB & CHANNEL TO HAVE 190mm DEPTH OF CONCRETE BELOW TOP OF PAVEMENT LEVEL.

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	19/09/19
1	150mm SUBGRADE IMPROVEMENT ADDED TO CONNECTOR STREET PAVEMENT	M.L	28/08/18
0	CONSTRUCTION ISSUE	M.L	07/09/18

NOT TO SCALE

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE
STAGE 1
PAVEMENT & TYPICAL DETAILS

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303976R39** Rev **2**

LEGEND

S1		STREET NAME PLATES TO BE IN ACCORDANCE WITH WCC SD812, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE
S2	GIVE WAY	R1-2A
S3	WATCH FOR	
S4		ROAD HUMP SIGN (BLACK & YELLOW)
	20 km/h	ADVISORY SPEED SIGN (BLACK & YELLOW)
S5	ROAD CLOSED	G9-20
S6		D4-5
S7		W3-4A ROAD HUMP SIGN (BLACK & YELLOW)
S8		D4-1-2
S9		D4-2-1
S10	KEEP LEFT	R2-3(L)
S11		R5-35
S12		R5-35
		TGSI KERB RAMP
		TGSI DIRECTIONAL
		1-WAY RRPM (5m SPACING)

NOTE:

1. STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY THE RELOCATION.

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	19/09/19
1	MERULA DRIVE DRIVEWAY UPDATED	M.L	24/04/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

1:500 A1

Horizontal 0 5 10 15 20 25

Vertical 0 5 10 15 20 25

dlcs ISO 9001 certified ISO 14001 certified ISO 45001 certified

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FRASERS PROPERTY

Designed R. WEINBER

Checked B. IBBS

Authorised M. CAIRNEY

Date 13-04-18

MAMBOURIN ESTATE STAGE 1

SIGNAGE & LINEMARKING PLAN SHEET 1 OF 3

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED

Drg No **303976R40**

Rev **2**

LEGEND

S1 — STREET NAME PLATES TO BE IN ACCORDANCE WITH WCC SD812, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE

S2 — GIVE WAY — R1-2A

S3 — WATCH FOR

S4 — ROAD HUMP SIGN (BLACK & YELLOW); 20 km/h — ADVISORY SPEED SIGN (BLACK & YELLOW)

S5 — ROAD CLOSED — G9-20

S6 — D4-5

S7 — W3-4A — ROAD HUMP SIGN (BLACK & YELLOW)

S8 — D4-1-2

S9 — D4-2-1

S10 — KEEP LEFT — R2-3(L)

S11 — R5-35

S12 — R5-35

TGSI KERB RAMP

TGSI DIRECTIONAL

1-WAY RRPM (5m SPACING)

NOTE:

1. STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY THE RELOCATION.

BIKE PATH CONTRASTING SURFACE COLOUR:

FOR ENHANCED VISIBILITY AT ALL ROAD CROSSINGS AND DRIVEWAY CROSSINGS AS SHOWN.
USE GREEN EPOXY MODIFIED ACEYLIC COATING WITH A NON SLIP SURFACE.

Rev	Amendments	Approved	Date
4	AS CONSTRUCTED	M.L	19/09/19
3	MERULA DRIVE DRIVEWAY UPDATED	M.L	24/04/19
2	TRAFFIC ISLAND ADDED ON BARRABOOL ROAD. GIVEWAY SIGN ADDED AT	M.L	07/03/19
	FUTURE RESIN STREET INTERSECTION. KEEP LEFT ADDED TO REFUGE.		
1	INTERSECTION TO RESIDENT CLUB & RIGHT HAND TURNING LANE ADDED.	M.L	31/01/19
	BLACK FOREST ROAD LIMIT OF WORKS ADJUSTED.		
	S7 SIGN , CYCLE LINEMARKING ADDED FRONT LOT 1501		
0	CONSTRUCTION ISSUE	M.L	07/09/18

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Horizontal 0 5 10 15 20 25

Vertical 0 5 10 15 20 25

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FRASERS PROPERTY

Designed: R. WEINBER
Checked: B. IBBS
Authorised: M. CAIRNEY
Date: 13-04-18

MAMBOURIN ESTATE STAGE 1

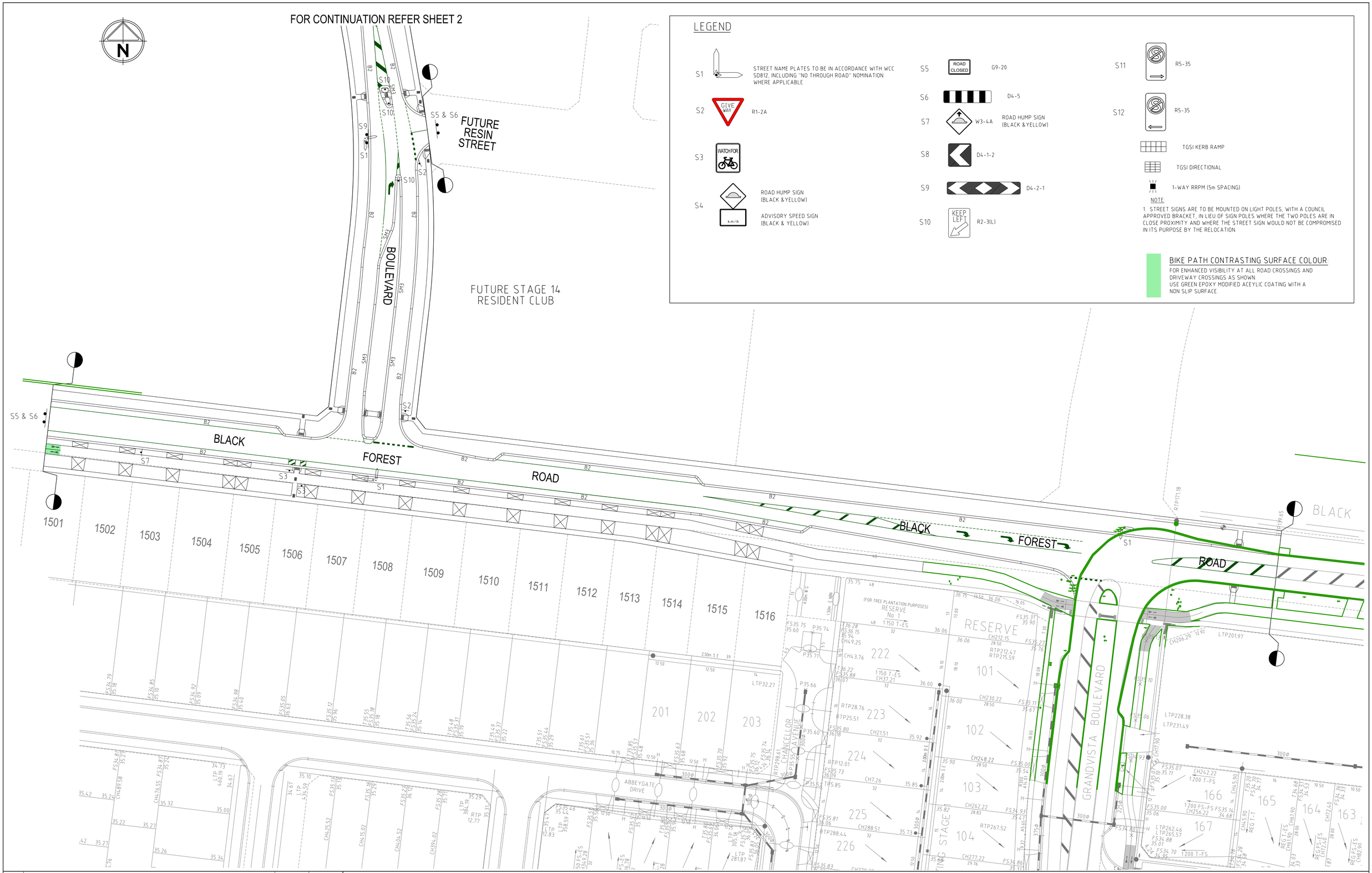
SIGNAGE & LINEMARKING PLAN SHEET 2 OF 3

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED

Drg No 303976R41

Rev 4



LEGEND

S1 — STREET NAME PLATES TO BE IN ACCORDANCE WITH WCC SD812, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE

S2 — GIVE WAY — R1-2A

S3 — WATCH FOR

S4 — ROAD HUMP SIGN (BLACK & YELLOW); ADVISORY SPEED SIGN (BLACK & YELLOW) — km/h

S5 — ROAD CLOSED — G9-20

S6 — D4-5

S7 — W3-4A — ROAD HUMP SIGN (BLACK & YELLOW)

S8 — D4-1-2

S9 — D4-2-1

S10 — KEEP LEFT — R2-3(L)

S11 — R5-35

S12 — R5-35

TGSI KERB RAMP

TGSI DIRECTIONAL

1-WAY RRPM (5m SPACING)

NOTE:

1. STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY THE RELOCATION.

BIKE PATH CONTRASTING SURFACE COLOUR:

FOR ENHANCED VISIBILITY AT ALL ROAD CROSSINGS AND DRIVEWAY CROSSINGS AS SHOWN
USE GREEN EPOXY MODIFIED ACEYLIC COATING WITH A NON SLIP SURFACE.

Rev	Amendments	Approved	Date
4	AS CONSTRUCTED	M.L	19/09/19
3	TRAFFIC ISLAND ADDED ON BARRABOOL ROAD. GIVEWAY SIGN ADDED AT	M.L	07/03/19
	FUTURE RESIN STREET INTERSECTION. KEEP LEFT ADDED TO REFUGE.		
2	INTERSECTION TO RESIDENT CLUB & RIGHT HAND TURNING LANE ADDED.	M.L	31/01/19
	BLACK FOREST ROAD LIMIT OF WORKS ADJUSTED.		
	S7 SIGN , CYCLE LINEMARKING ADDED FRONT LOT 1501		
1	BLACKFOREST ROAD INDENTED PARKING BAY AMENDED	M.L	27/09/18
0	CONSTRUCTION ISSUE	M.L	07/09/18

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Horizontal 0 5 10 15 20 25
Vertical 0 5 10 15 20 25

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

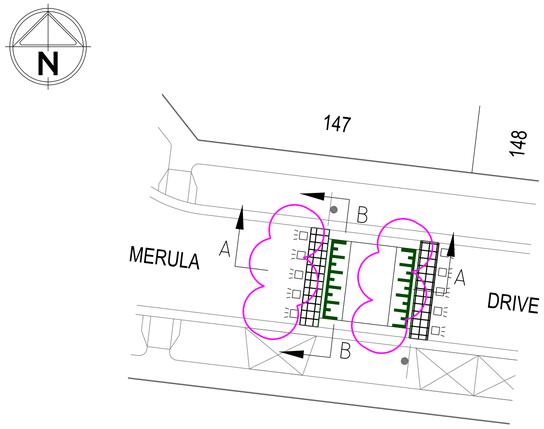
MAMBOURIN ESTATE STAGE 1

SIGNAGE & LINEMARKING PLAN SHEET 3 OF 3

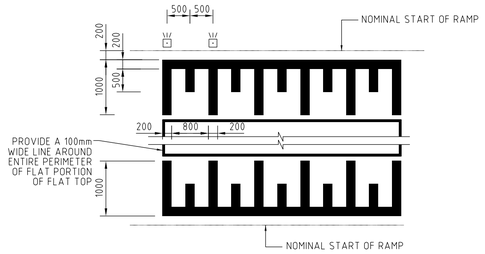
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

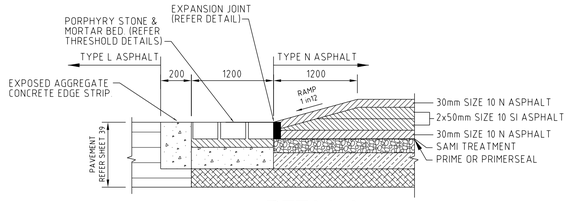
AS CONSTRUCTED

Drg No 303976R42
Rev 4



PLAN
FLAT TOP ROAD HUMP
(MERULA DRIVE)

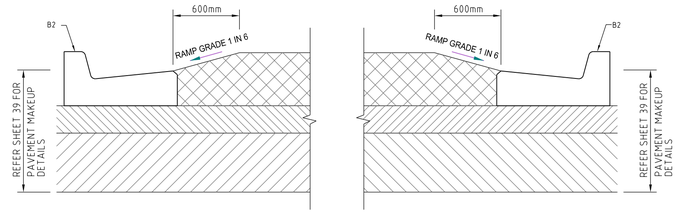




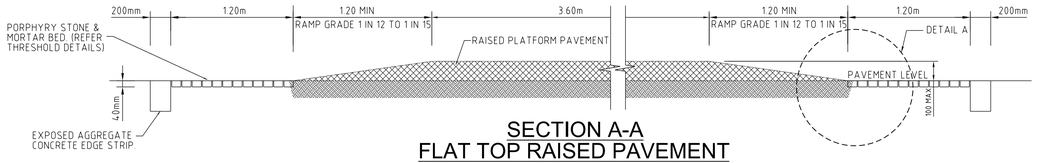
DETAIL A
RAISED PLATFORM PROFILE
NOT TO SCALE

BASALT PORPHYRY STONE
(90X90mm WITH 10-15mm MORTAR GAP)

NOTE:
CONTRACTOR TO PROVIDE 1m SQUARE SAMPLE OF BOTH SURFACES TO SUPER INTENDENT FOR APPROVAL BEFORE CONSTRUCTION WORK CAN COMMENCE



SECTION B-B
NOT TO SCALE



SECTION A-A
FLAT TOP RAISED PAVEMENT
NOT TO SCALE

THRESHOLD DETAILS

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm) PORPHYRY STONE
BASALT PORPHYRY STONE	90mm X 90mm BASALT PORPHYRY STONE (AS PER PHOTO) 10mm - 15mm MORTAR JOINTS	60
MORTAR BED	GREY COLOURED MORTAR	35
EXPOSED AGGREGATE	KEABLA MIDWAY MINI MIX CONCRETE (AS PER PHOTO) OR 15mm-20mm BLUE METAL (60%), 10mm-14mm QUARTZ (30%), 7mm-10mm YELLOW CHIP / PEBBLE (10%) . FINISH = WATER WASHED MEDIUM EXPOSED (2mm). CHARACTERISTIC FLEXURAL STRENGTH = 45MPa, SL92 TOP REINFORCEMENT, 40mm COVER	-
CONCRETE BASE COURSE	CHARACTERISTIC FLEXURAL STRENGTH = 45MPa, SL92 TOP REINFORCEMENT, 40mm COVER	195
DE-BONDING TREATMENT	BITUMEN SPRAYED SEAL WITH 5mm-7mm AGGREGATE	Y
	UPPER PAVEMENT TOTAL	290
LOWER SUBBASE	Class 3 Crushed Rock (size 20mm). Compacted in 2 layers	150
CAPPING LAYER	Type A - Working platform achieving CBR > 5%; Properties: CBR >15.0%, Swell <1.5 %, Permeability < 1E-9 m/s (thickness to be confirmed during construction)	160
	TOTAL PAVEMENT DEPTH	600

Rev	Amendments	Approved	Date
3	PAVEMENT FLEXURAL STRENGTH CORRECTED TO SHOW 45MPa	M.L	26/03/20
2	AS CONSTRUCTED	M.L	19/09/19
1	BASALT PORPHYRY STONE THRESHOLD TREATMENT ADDED	M.L	31/01/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

Scale 1:200, A1
Horizontal 0 2 4 6 8 10
Vertical 0 2 4 6 8 10

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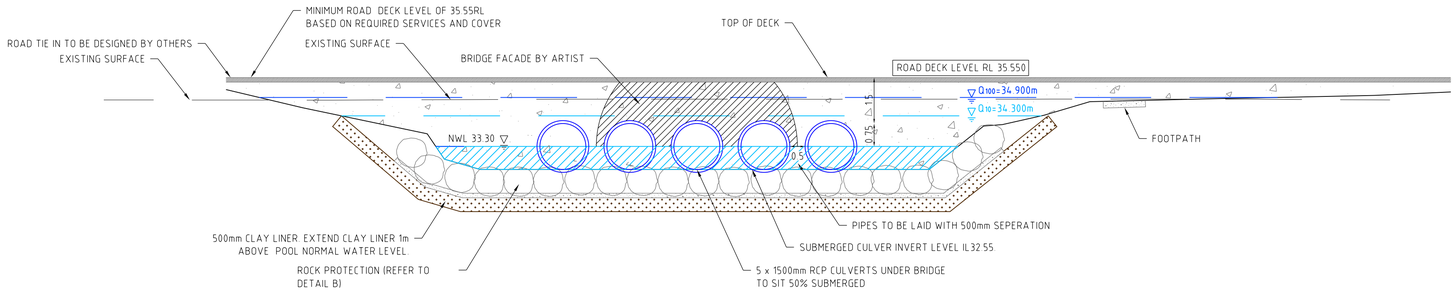
FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 13-04-18

MAMBOURIN ESTATE
STAGE 1
RAISED PAVEMENT DETAILS

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

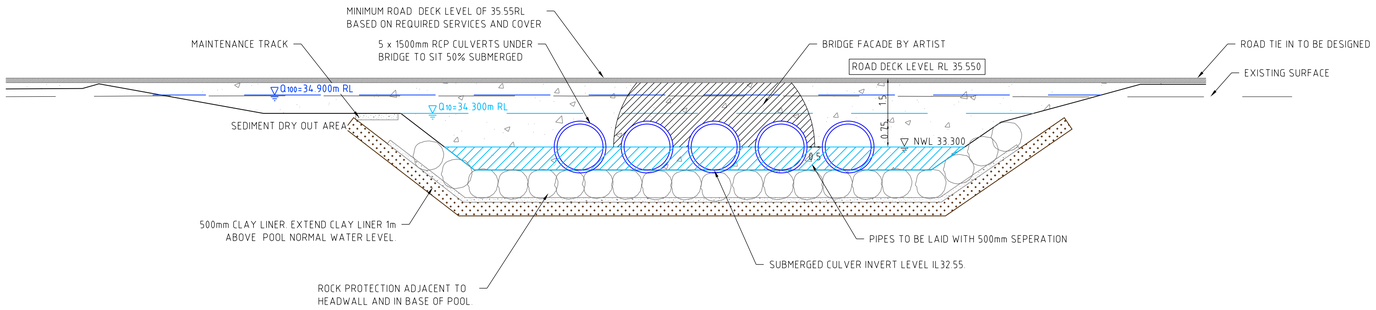
AS CONSTRUCTED Drg No **303976R43** Rev **3**



SECTION A

UPSTREAM HEADWALL ELEVATION

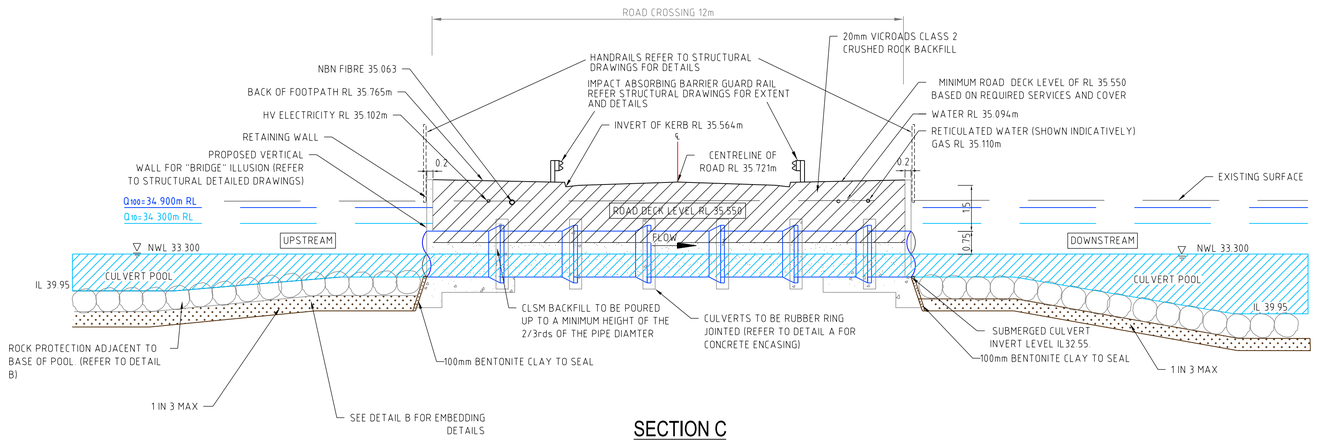
NTS



SECTION B

DOWNSTREAM HEADWALL ELEVATION

NTS



SECTION C

CULVERT CROSSING

NTS

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	19/09/19
0	CONSTRUCTION ISSUE	M.L	07/09/18

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Horizontal 0 5 10 15 20 25

Vertical 0 5 10 15 20 25

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FRASERS PROPERTY

Designed R. WEINBER

Checked B. IBBS

Authorised M. CAIRNEY

Date 13-04-18

MAMBOURIN ESTATE
STAGE 1
CULVERT DETAILS

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED

Drg No **303976R44**

Rev **1**